

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE PROPERTIES INCLUDING; THE HOYT LAKES
FACILITY, DUNKA PROPERTY, TACONITE HARBOR, AND
RAILROAD
CORRIDORS

September, 2002
NTS Project # 5796.08

Prepared for:
Cliffs Erie, L.L.C.

Prepared by:
NORTHEAST TECHNICAL SERVICES, INC.

315 CHESTNUT STREET
P. O. BOX 1142
VIRGINIA, MINNESOTA 55792
(218) 741-4290

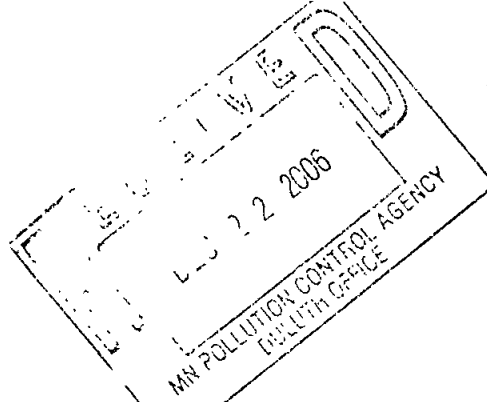


"Solutions for Technical Concerns"



December 21, 2006

Ms. Amy Miller
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194



RE: Corrections to the report titled "Phase I Environmental Site Assessment, Cliffs Erie Properties Including: the Hoyt lakes Facility, Dunka Property, Taconite Harbor and Railroad Corridors" dated September 2002

Dear Ms. Miller:

The following corrections should be made to the above referenced report:

1. On page 15 the last sentence in paragraph 2, should read: "A Truck Fueling Station (AOC-17, Figure 4), constructed..."
2. On page 16:
 - The figure reference for AOC-30 should be Figure 10;
 - The figure reference for AOC-28 should be Figure 9; and,
 - The figure reference for AOC-29 should be Figure 9.
3. On page 17, in the third paragraph the Coal Ash Landfill should be referenced as AOC-36, Figure 12; and, the Line 9 Area 5 permitted petroleum land application site should be referenced as AOC-37.
4. On page 18 the last sentence in the second paragraph should read: "Figure 16 provides details of the infrastructure of the plant itself."
5. On page 21 the figure reference for AOC-58 should be Figure 13.

If you have any questions please feel free to contact me at (218) 742-1029.

Sincerely,
Northeast Technical Services, Inc.

A handwritten signature in black ink, appearing to read "Douglas A. Fossell".

Douglas A. Fossell
Project Manager

Cc: ✓ Mr. Jonathan Smith, MPCA (Duluth Office)
Mr. Bruce Gerlach, Cliffs Erie LLC

SITE/AOC	DESCRIPTION	PRACTICE	COCS	COMMENTS	RRS/ CATEGORY	MPCA RANK	CE RANK
Mill Rejects Area					H/MODERATE GW/LOW SW/LOW	10	1
12	Mill Rejects Area	Industrial and demolition waste disposal	DRO, PAH, RCRA	Scrap originates from projects in the concentrator building			
Area 2 Shop Complex					H/MODERATE GW/MODERATE SW/LOW	1	2
38	Area 2 Shops	Fueling Equipment rebuild and repair Paint Shop Carpenter Shop	DRO, GRO, VOC, RCRA SVOC	Closed Leak # 6423			
Area 1 Shop Complex					H/MODERATE GW/MODERATE SW/LOW	5	3
1	Area 1 Shops and Reporting	Fueling Equipment rebuild and repair Steam Cleaning Electrical Shop	DRO, GRO, VOC, RCRA SVOC	LUST Leak #6421 closed 12/16/98 Soil removed and land applied at line 9 Area 5			
Dunka					H/MODEATE GW/MODERATE SW/LOW	9	4
32	Dunka Shops and Reporting	General shops and fueling					
33	North Loading Pocket	Truck fueling					
34	South Loading Pocket	Truck fueling					
Area 5					H/MODERATE GW/MODERATE SW/LOW	16	5
24	Area 5 Reporting	General materials storage adjacent to the reporting area	DRO, VOC, RCRA				
25	Area 5 Loading Pocket and Storage	Materials storage, salvaging operations	DRO, VOC, RCRA				
Area 6					H/LOW GW/MODERATE SW/HIGH EXPLOSION/HIGH	12	6
26	Area 6 Vibratory Loading Pocket	Lube station Truck fueling	DRO, VOC, PAH				
27	Area 6 Misfired Blast	Blasting	DRO	Location is difficult to determine			DI
Area 9					H/LOW GW/MODERATE SW/MODERATE	7	7
28	Area 9S Former Aurora Dump	Uncontrolled municipal dump for the city of Aurora	VOC, SVOC, RCRA VOC, SVOC, RCRA VOC, PAH, Metals	Dump operated up to about 1970 Most was removed during overburden stripping			
29	Stockpile #9021	Overburden stockpile with Aurora dump	DRO, GRO, VOC, RCRA, PAH, PCB				
30	Pre-Fac	Full scale preliminary taconite plant		location of specific buildings and infrastructure			

31	Area 9 N Vibratory Loading Pocket Lube station		DRO, PAH, Pb	Small areas of soil staining			
Area 1 West					H/MODERATE GW/MODERATE SW/MODERATE	8	8
2	Area 1W Petroleum Contaminated Soil	Land application of petroleum contaminated soil from where various spill sites including Taconite Harbor railroad accident	DRO, GRO	Permitted land application site, monitoring data exists			
3	Sludge Site	Land application of municipal WWTP sludge from Aurora and Hoyt Lakes	RCRA	Discontinued sludge application in 1988			
4	1004 Storage Area	Salvage of equipment General Materials storage	DRO, GRO, VOC, PAH, RCRA Metals	Adjacent ravine contains industrial and demolition waste			
5	Roofing Disposal	Demolition waste disposal	PAH, RCRA	Adjacent ravine contains industrial and demolition waste			
Area 1 East					H/LOW GW/MODERATE SW/LOW	15	9
6	Only Waste Disposal Area	Only waste from oil/water separator of the WWTP disposal	DRO, GRO, VOC, PAH, RCRA	Exact location is difficult to determine Disposal is only documented through interview information and exact location is difficult to determine			
7	Bull Gear Disposal	One time disposal of heavy lubricant	PAH, Pb				
8	Private Landfill	Industrial Waste disposal	VOC, RCRA	Closed, permitted landfill SW-17			
Area 2 West					H/LOW GW/MODERATE SW/MODERATE	11	10
19	Area 2WX Reporting	Fuel oil tank, well and septic General materials storage	Some soil staining evident in storage area				
20	Shovel Salvage	Shovel Salvage area	DRO, GRO, PAH, RCRA Metals				
21	Area 2WX Truck Fueling	In-mine truck fueling	DRO, BTEX				
22	2WX Vibratory Loading Pocket	Lube station	DRO, PAH, Pb				
23	2WX Superpocket	Hydraulic fluids for the Superpocket and truck fueling	DRO				
60	Brick Recycling Area	stockpile/crushing of refractory brick	heavy metals, unknown	since its been a historical dump area, possibility of other things being disposed also			
Area 2					H/HIGH GW/MODERATE SW/MODERATE	3	11
13	2001 Storage Area	Equipment salvage Materials storage Transformer storage	DRO, GRO VOC, PAH, PCB, RCRA Metals	Much of the equipment and materials have been removed by scrap dealers			
14	Large Equipment Paint Area	Sandblasting and painting	RCRA, VOC	Site contains residual blasting sands			
16	Area 2 Vibratory Loading Pocket	Lube station	DRO, PAH, Pb				



17	Area 2 Truck Fueling	In-mine truck fueling	DRO/BTEX					
18	Area 2 Superpocket	Hydraulic fluids for the Superpocket	DRO					
Panel Yard					II MODERATE GW MODERATE SW HIGH	2	12	
9	RR Panel Yard Disposal of railroad ties Locomotive fueling	RR siding area Fabrication of rail panels	DRO, VOC, RCRA, PAH	Rail road ties disposal areas also contain scrap metal and other demolition waste				
10	Airport	Equipment salvage & tear-down area		The term "airport" implies that this area is where unserviceable equipment lands. Most has been removed recently by scrap dealers.				
11	Stoker Coal Ash Disposal	Coal ash industrial waste disposal	DRO, GRO, VOC, RCRA B, Sr	Cover on the disposal area is marginal.				
Tailings Basin					II MODERATE GW MODERATE SW HIGH	6	13	
35	Dunka WTP Sludge	Stockpiling area for WTP sludge	RCRA Metals	The sludge was the result of the active wastewater metals treatment plant. The plant was on-line March of 1992. Currently the water treatment is accomplished with wetlands treatment.				
36	Coal Ash Landfill	Coal ash landfilling	Closed landfill with monthly cover inspections					
37	Line 9 Area 5 Petroleum Contaminated Soil	Petroleum contaminated soil landfarm	DRO	Soil was the result cleanup at Area 1 shops and Knox Station.				
47	Tailings Basin Reporting	Lube station Fueling area						
48	Transformers	Transformers associated with pumps located within the Tailings Basin	DRO, PCB	Various locations within the tailings basin.				
50	Emergency Basin	Drain Outfall for storm water, and process wastewater for the plant site	DRO, VOC, PAH, RCRA	A preliminary workplan has been submitted to the MPCA.				
51	Salvage and Scrap Areas	Storage and salvaging various equipment. These are small areas scattered on the southwest side of the tailings basin.	DRO, PAH, PCB, RCRA Metals					
52	Cell 2W Salvage Area	Storage of materials and equipment	DRO, PAH, Pb	Storage of Coherex (petroleum based dust suppressant).				
53	Hornfels	Disposal of sulfide waste rock	RCRA Pb	Currently monitoring wells are installed and monitored as part of NPDES permit.				
LaCointe Harbor					II MODERATE GW MODERATE SW HIGH	1	14	
54	Marine Fueling AST's	Fueling ore boats	DRO, PAH	Active Leak # 12252				
55	Oil Track	Off loading from rail cars to Marine Fueling Facility	DRO, PAH			14		
56	Coal Ash Landfill	Permitted coal ash landfill with				14		
Main Line Railroad					II LOW GW MODERATE SW MODERATE	13	15	

15	RR Storage Area	Siding area and general storage of railroad equipment	PAH, DRO	15
39	Knox RR Fueling Station	Fueling mainline locomotives	DRO, VOC	Active Leak # 6499
57	Murphy City	Light locomotive maintenance, light vehicle fueling	DRO, GRO, VOC, RCRA, PAH	Closed leak site #6432
58	Rail Lubricators	Applies lube grease to the inside of rail lines at curves	PAH, Pb	Build up of lubricant on ballast Two lubricators near Taconit Harbor, one near mile post 55
				H/MODERATE
Plantsite				GW/LOW
				SW/LOW
				14
				16
40	Heavy Duty Garage	Equipment maintenance	DRO, GRO, VOC, PAH	This facility has been used only for cold storage since the 1960s
41	Oxygen Plant	Purify oxygen from ambient air	DRO, PAH, PCB	Large Compressors
42	Bunker C Tank Farm	Large AST storage of #4 to #6 fuel oil	DRO	Reported spill in the 1990s Active Leak #2254
43	Administration Building	Heating oil tank	DRO, BTEX	Tank was closed in place
44	Main gate Vehicle Fueling Area	Two 6000 gallon AST	GRO/DRO/VOC	This is the one near the Guard Gate
45	Pellet Storage Area & Loadout	RR sidings	DRO, PAH	The portion of this large area that is of concern is the rail line on the north side of the storage area where soil staining is apparent
46	Plant site proper and General Shops	Crushing, concentrating, pelletizing and general maintenance facilities	DRO, GRO, VOC, PAH, PCB, RCRA	16
49	Coarse Crusher Petroleum Contaminated Soil	Cleaning waste from the Coarse Crusher building	DRO, Pb	The material was shipped offsite for treatment in July, 2000
59	Colby Lake Pumping Station	Heating oil AST Transformer	DRO, BTEX	Tank was removed in 1970s and replaced with LP

**Program
Lead**

VIC

VIC/Leak

VIC/Leak

VIC/Leak
VIC/Leak
VIC/Leak

VIC

VIC/Leak

VIC
NR/MPCA Closure Plan

VIC

VIC/SW

VIC

VIC/Leak

Leak

VIC

VIC

VIC

VIC

VIC

SW

VIC

VIC

Leak?

VIC

VIC/Leak

VIC

VIC

VIC/Leak

VIC/Leak
VIC/Leak

VIC

VIC

VIC/SW?

VIC/NPDES?

SW

Leak
Leak?

VIC

VIC/NPDES

VIC

VIC

NPDES

AST

VIC

SW

Site Identification Number Vic # 15860

NOTICE

This file contains one or more of the following items that have not been scanned.
For access to these items, see the original file.

- ☐ audio cassette tape(s)
- ☐ blueprint(s)
- ☐ compact disc(s)
- ☐ diskette(s)
- ☒ map(s)
- ☐ other _____
- ☐ photograph(s)
- ☐ plan sheet(s)
- ☐ slide(s)
- ☐ videotape(s)

PHASE I - ENVIRONMENTAL SITE ASSESSMENT

CLIFFS ERIE PROPERTIES INCLUDING; THE HOYT LAKES FACILITY, DUNKA PROPERTY, TACONITE HARBOR AND RAILROAD CORRIDORS

September, 2002
NTS Project # 5796.08

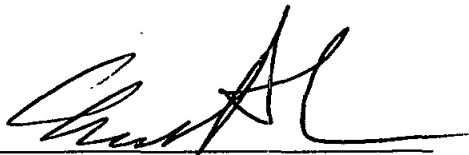
Prepared for:

Cliffs Erie, L.L.C.

Prepared by:

NORTHEAST TECHNICAL SERVICES, INC.

315 CHESTNUT STREET
P.O. BOX 1142
VIRGINIA, MINNESOTA 55792
(218) 741-4290



Richard Crum, P.G.
Hydrogeologist/Analytical Chemist

Lauren Aho, P.E.
Project Engineer

DISCLAIMER

All information presented in this Phase I Environmental Site Assessment is based on reviews of available literature, records, and informal discussions with various governmental agencies, contractors, and other personnel involved with the property. Conclusions presented are a result of interpretations of the information collected by Northeast Technical Services, (NTS).

Since several conclusions reached in this evaluation were based on information from others or readily available documentation, newly documented or changed verbal information discovered after submittal of this report could result in reinterpretation and alteration of conclusions presented. No soil or water samples were collected or submitted for laboratory analysis as part of the Phase I ESA to verify or confirm the implied quality.

This report does not constitute an assurance or guarantee by NTS that the subject property is presently, nor will it necessarily remain free, from environmental impairment. However, NTS has made every effort to conduct a thorough and complete evaluation of the subject property before submitting this report.

TABLE OF CONTENTS

INTRODUCTION	1
METHODOLOGY AND LIMITATIONS	2
GENERAL HISTORICAL BACKGROUND	3
GENERAL OVERVIEW OF THE TACONITE PROCESS	4
MINING.....	4
CRUSHING	6
CONCENTRATING.....	6
AGGLOMERATING	7
RAILROAD	7
DOCK	7
POWER PLANT.....	8
OTHER INFRASTRUCTURE.....	8
UST AND AST INVENTORY	8
PROJECT BOUNDARIES AND OWNERSHIP	9
MINE AND PLANT AREAS.....	10
REGIONAL GEOLOGY AND HYDROGEOLOGY.....	10
ENVIRONMENTAL RECORDS REVIEW	11
INTERVIEWS, ON SITE RECONNAISSANCE AND ARIAL PHOTO REVIEW	12
AREA 1.....	13
AREA 2, 2E AND 3.....	14
AREA 2W	15
AREA 2WX.....	15
AREA 5.....	15
AREA 6, AREA 9N AND AREA 9S	16
PLANT AND PROCESSING AREA.....	16
AREA 8 (DUNKA MINE)	18
TACONITE HARBOR.....	19
REGIONAL GEOLOGY AND HYDROGEOLOGY.....	19
ENVIRONMENTAL RECORDS REVIEW	19
INTERVIEWS, ON-SITE RECONNAISSANCE AND ARIAL PHOTO REVIEW	20
RAILROAD CORRIDOR AND MURPHY CITY	20
REGIONAL GEOLOGY AND HYDROGEOLOGY	20
ENVIRONMENTAL RECORDS REVIEW	20
INTERVIEWS, ON-SITE RECONNAISSANCE AND ARIAL PHOTO REVIEW	21
CONCLUSIONS.....	21
REFERENCES	22

APPENDIX A – FIGURES

FIGURE 1	PROPERTY LOCATIONS AND OWNERSHIP
FIGURE 2	HOYT LAKES MINING AND PLANT AREAS.
FIGURE 3	AOC - AREA 1
FIGURE 4	AOC - AREA 2, 2E AND 3
FIGURE 5	AOC-AREA 2W
FIGURE 6	AOC - AREA 2WX
FIGURE 7	AOC – AREA 5
FIGURE 8	AOC – AREA 6
FIGURE 9	AOC – AREA 9S
FIGURE 10	AOC – AREA 9NW
FIGURE 11	AOC – AREA 8 (DUNKA)
FIGURE 12	AOC – PLANT AND PROCESSING AREA
FIGURE 13	AOC – TACONITE HARBOR
FIGURE 14	AREA 1 SHOPS DETAIL
FIGURE 15	AREA 2 SHOPS DETAIL
FIGURE 16	PLANT DETAIL
FIGURE 17	MURPHY CITY DETAIL
FIGURE 18	TACONITE HARBOR DETAIL
FIGURE 19	ERIE PRELIMINARY TACONITE PLANT DETAIL

APPENDIX B – TABLES

TABLE 1	RECORD OF MATERIAL REMOVED BY AREA
TABLE 2	EXISTING OUTDOOR AST
TABLE 3	INDOOR AST
TABLE 4	REMOVED AST
TABLE 5	REMOVED UST
TABLE 6	WELL AND SEPTIC SYSTEM INVENTORY
TABLE 7	AREAS OF CONCERN

APPENDIX C – EDR SEARCH, HOYT LAKES AREA**APPENDIX D – EDR SEARCH, TACONITE HARBOR****APPENDIX E – AST PERMITS AND TABS DATABASE****APPENDIX F – MESABI RANGE GEOLOGIC MAP**

INTRODUCTION

The former LTV Steel Mining Company (LTVSMC) ceased mining operations in 2001 and subsequently Cliffs Erie, L.L.C. (CE) acquired portions of the facility directly related to mining and ore processing. Minnesota Power (MP) acquired portions not directly associated with the mine and processing. Minnesota Rules 6130 require a Mine Closure Plan for the facility. The CE Closure Plan (May 23, 2002) provides a framework for work to be conducted as part of the closure process. In general, closure work falls into two categories:

1. Work that falls under regulatory oversight by the Minnesota Department of Natural Resources (MDNR) Including:
 - Plans for pit to watercourse discharges.
 - Mineland reclamation.
 - Plans for tailings basin drainage.
2. Work that falls under regulatory oversight by the Minnesota Pollution Control Agency (MPCA) including:
 - Investigation and potential cleanup of contaminants in soil or groundwater related to the mining operations.
 - Protection of overall water quality.

CE retains the responsibility for closure of the mine (areas not currently owned by MP) and entered the Voluntary Investigation and Cleanup (VIC) Program of the MPCA on April 4, 2002. Conducting closure work as a volunteer in the VIC Program will result in legal or administrative assurances, issued by the Commissioner of the MPCA, that apply either to CE as an entity, or to specific legally described lands. These assurances are intended to streamline re-use or redevelopment of the idled facility. In essence, the facility is viewed as brownfield that must undergo routine Phase I assessment, Phase II investigation, and risk based decision making that incorporates planned land use regarding identified releases that arise from the Phase I and Phase II process.

Northeast Technical Services, Inc. (NTS) was retained by CE to conduct a Phase I Environmental Site Assessment (ESA) of the CE owned facility which consists of the following general land descriptions:

1. Mining areas at Hoyt Lakes and Dunka.
2. Plant area at Hoyt Lakes.
3. Railroad Corridor including Murphy City.
4. Taconite Harbor including the Pellet Dock, Marine Fueling, and Coal Ash Landfill.

METHODOLOGY AND LIMITATIONS

The purpose of this Phase I ESA is to provide the appropriate level of inquiry to delineate Areas of Concern (AOC) which will require Phase II investigation. An AOC is defined as a discrete area of the property where a known release, or a material threat of a release is identified by the level of inquiry provided by this document. Sampling and Analysis Plans (SAPs) will be developed for each of the areas of concern and will contain sufficient details regarding the practices and contaminants of concern to identify individual Recognized Environmental Conditions (RECs).

The scope of this Phase I ESA generally follows the 2000 version of ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (Designation: E 1527-97) and is consistent with the MPCA VIC Guidance Document #8.

Due to the large land area and the unique use of the property, several limitations are noted:

1. Record searches did not designate a specific address. Rather, Environmental Data Resources (EDR) provided an "Area Search" for the Hoyt Lakes Facility and Taconite Harbor. Environmental record searches were not obtained for Murphy City, Dunka or the Railroad Corridor.
2. The historical land use was developed primarily from information obtained from interviews. Drawings, plans, and air photographs archived by CE Mine and Plant Engineering, were used to verify historical information.
3. Questions presented in the ASTM Owner Questionnaire are very difficult for one individual to answer given size of the facility and the recent change in ownership. Therefore, an owner questionnaire was not completed for the facility.
4. The entire facility was accessible for performance of the ESA. However, the very large land area made inspection of all land area practicably unascertainable.

Historical land use, development of the property and description of the mining process is presented for the property as a whole. Site descriptions (physiographic, geologic and hydrogeologic), standard environmental records searches, and interviews and site reconnaissance are presented separately for the following;

1. Hoyt Lakes (mining areas and plant) and Dunka,
2. Taconite Harbor
3. Railroad Corridor

GENERAL HISTORICAL BACKGROUND

The CE "Facility" consists of major portions of former LTVSMC. The historical development of the whole facility is important in understanding the overall property use.

The Erie Mining Company (EMC) was formed in 1940 to pursue a process for economic recovery of iron from taconite. The research culminated in the construction and operation of the Erie Experimental Taconite Plant (Pre-Tac) which operated between 1948 and 1957. Pre-Tac was located in the SW ¼, of the SE ¼ of Section 28, Township 59 North, Range 15 West, or near the western extent of the current Hoyt Lakes mine area.

The decision to proceed with construction of a full scale commercial taconite plant was largely based on the estimated reserves on lands controlled by EMC. The reserves would need to yield a minimum of 10.5 million long tons annually of agglomerated concentrate with an average dry iron content of 64% over a period of 40 years; or a total of 420 million long tons of concentrate. In 1951 EMC held lands were divided into the following areas:

1. Area 1 with a minimum yield of 83 million long tons of concentrate.
2. Area 2 with a minimum yield of 142 million long tons of concentrate.
3. Area 3 with a minimum yield of 83, million long tons of concentrate.
4. Area 3X with a minimum yield of 90 million long tons of concentrate.
5. Area 4 with a minimum yield of 92 million long tons of concentrate.

These yields exceeded the 420 million long ton requirement and EMC initiated construction of a full scale facility in 1954.

The EMC full scale facility was originally constructed and owned by Bethlehem Steel Corporation (45%), Youngstown Sheet and Tube Company (35%), Interlake Iron Corporation (10%) and Steel Company of Canada Limited (10%). The facility consisted of a 7.5 million ton annual capacity taconite processing plant at Hoyt Lakes, a coal fired steam electric generating plant in Taconite Harbor, and approximately 75 miles of railroad and power lines connecting the Hoyt Lakes plant to the generating plant. The facility was placed into production in September, 1957 with the first load of pellets shipped in December of 1957. Pickands Mather Company (PM) was the original managing agent for the mine.

The Taconite Tax Amendment, passed in November, 1964, provided tax structure for taconite producers. Consequently, in 1965, PM announced an expansion program for EMC which would bring it's pellet producing capacity to 10.6 million tons annually. Construction began in the same year and by 1967 EMC was meeting the new production rate. Additional mining areas were permitted over the years as production requirements dictated.

Ling-Temco-Vought Corporation (LTV Corporation) of Dallas Texas acquired 100% ownership of EMC in May, 1986 and renamed the facility LTV Steel Mining Company (LTVSMC) in 1987. Also in 1986, Cleveland Cliffs, Inc. (CCI) purchased PM and became managing agent for the facility.

On May 24, 2000, LTV Steel Corporation announced it would close LTVSMC in the summer of 2001. On December 6, 2000, the closure date was moved up to February 24, 2001. On January 3, 2001, it was announced that LTVSMC's Hoyt Lakes mine and processing plant would close immediately. The last product left the plant site, by railcar, on July 19, 2001 and the last ore boat departed Taconite Harbor Docks on July 22, 2001.

On October 30, 2001, CE, a subsidiary of CCI and MP purchased the facility and assets. MP now owns the Power Plant, former Taconite Harbor Village and some related lands. CE owns the mine sites, taconite processing plant, Pellet Dock, Marine Fueling, and Railroad Corridor.

GENERAL OVERVIEW OF THE TACONITE PROCESS

Unlike sulfide ore mining, the process of mining and processing taconite does not generate hazardous waste or hazardous substances as a result of the process. The process waste is overburden, waste rock, and tailings. These materials alone are not considered to lead to a release of contaminants of concern. One exception to this "benign waste rock and tailings rule" exists at Dunka where some sulfide minerals exist within some of the waste rock. This condition is discussed in a later section. In general, waste containing contaminants of concern are generated as a result of using materials related to the process such as fuels, lubricants, hydraulic fluids, etc. Therefore, this Phase I ESA was conducted by identifying areas where materials other than process waste were used or disposed. Locating these areas was largely dependent upon use of existing drawings and interviews with current and former employees.

The general taconite process is divided into the following categories; mining, crushing, concentrating, agglomerating, railroad, dock, and power plant.

MINING

Mining operations were conducted at the Hoyt Lakes location and the Dunka location. Mining included drilling, blasting and loading ore to an in-mine railroad. The mining lands are divided into the following areas which are shown on Figure 2 in Appendix A:

1. Area 1
2. Areas 2, 2 E, and Area 3
3. Area 2 W
4. Area 2 WX

5. Area 5
6. Area 6
7. Area 8 (Dunka)
8. Area 9 N
9. Area 9 S

One additional mine area, generally referred to as the McKinley Extension, exists near Area 6 and Area 9. The McKinley Extension is owned and was mined by US Steel Corporation except for a period of time during which the Northwest Ore Division leased the area. The McKinley Extension has been formally "closed" in accordance with Minnesota Rules 6130 and is not included in this Phase I.

In general, each mine area contains the following infrastructure:

- Fueling – Fueling in the mine areas consisted of above ground storage tanks (ASTs) containing fuel oil or gasoline for in-mine heavy equipment (haul trucks, loaders and rubber tired dozers). Early in development of the mining areas, fueling was accomplished with mobile ASTs which were either skid mounted, or consisted of a semi trailer transport tank. During the 1980s and 1990s, fueling stations were installed that consisted of ASTs meeting standard construction specifications. The dispensers are located within large shelters with concrete floors. Any spills that occurred within the shelters during fueling were contained and drained to holding tanks that are pumped periodically. In-pit locomotive fueling was accomplished with Locomotive Fueling Stations located near the Area 1 and Area 2 Shops. Fueling for the mainline railroad locomotives was done at the Knox Locomotive Fueling Station which is discussed later. Tables 2 through 5 summarize the AST and underground storage tank (UST) inventory at the entire facility.
- Loading Pockets – Initially, shovels loaded rail cars directly. As the mine pits became deeper, the grade became too great for rail transport of crude ore directly to the plant. Therefore, shovels loaded crude ore into haul trucks for transport out of the pit. Loading Pockets provided a means of transferring the ore from the haul trucks into rail cars for the remaining transport to the processing plant. The pockets were generally in close proximity to the Truck Fueling Stations. The Loading Pockets used two types of feeders; the vibratory type and the Superpocket. The vibratory pockets were electrically powered and the only waste stream was small amounts of lubricant for wear surfaces. The Superpocket type was electric/hydraulic powered and therefore used hydraulic fluids.
- Reporting Area – A set of buildings where mine employees reported for work and general operations within the area were controlled was called the Reporting Area. The buildings contained locker rooms, showers, offices, lunch rooms, etc. Septic systems and drinking water systems (wells or holding tanks) were associated with

each Reporting Area. The septic systems were connected to domestic type sewage only and are not considered a concern. Table 6 presents an inventory of wells and septic systems.

Other mine infrastructure that is not specific to all mine areas is the following:

- Area 1 Shops, Area 2 Shops and Dunka Shops –The shops were constructed during the original plant construction and upgraded in 1967 during the overall plant expansion. The reason for upgrading was primarily to accommodate the increasing size of equipment used. The Area 1 and Area 2 Shops provided general maintenance of in-mine equipment while Dunka shops provided only light maintenance such as brakes, lubrication etc.

CRUSHING

Ore delivered to the plant site was offloaded to the Coarse Crusher which used 60 inch and 36 inch gyratory crushers to reduce the crude ore size to six inches. The coarse crushed ore was delivered to the Fine Crusher which used a series of standard and shorthead crushers to reduce the crude ore to ¾ inch. Various heavy lubricants were used on the bearing surfaces of the crushers.

CONCENTRATING

Concentrating (a separation of the iron containing minerals from the rest of the crude ore) included the following components:

- Rod mill – A rotating drum filled with metal rods. The rotation pulverized the crushed ore to finer material. Water was added at this point and the concentrate was carried through the rest of the process as a slurry.
- Magnetic separators – Magnetite grains in the concentrate slurry was separated from the pulverized ore by rotating magnetic drums.
- Ball mill – Same as a rod mill except that metal balls rotating in a drum pulverized the ore.
- Flootation – final finishing separation step. Two reagents referred to as Frother (alcohol) and Collector (amines) were added to the concentrate slurry.

The process of concentrating used large amounts of water with tailings discharged to the Tailings Basin as a slurry. Once solids settled out of the slurry, water was recycled back to the plant in a closed system.

AGGLOMERATING

Agglomerating produced finished taconite pellets and included the following:

- Thickener - The concentrate slurry was delivered to the thickener where settling increased the concentrate to water ratio.
- Filter - The thickened slurry was filtered to provide a filter cake with acceptable moisture content for the balling step.
- Balling - Bentonite and concentrate were added to a rotating drum. The right mixture of moisture, bentonite and concentrate formed "green pellets".
- Furnace - Furnaces fired the green pellets to form finished "hard" pellets. The original plant furnace was fired with #6 fuel oil stored in three large ASTs. The fuel was offloaded by railcar. The furnaces were converted to natural gas between 1965 and 1968 with #6 fuel oil used as backup.

RAILROAD

Railroad - Provides transport of finished pellets to the Pellet Dock at Lake Superior. The railroad consisted of the following:

- Rail corridor - Originally constructed concurrent with the original plant, the corridor was constructed with ballast (crushed rock), rail ties and rail lines. Switches are manual with the exception of several electric switches near the Taconite Harbor end of the rail line. Power for crossing signs and switches was provided by several battery houses (Photograph 5, Appendix D) with solar panels to recharge the batteries. Prior to solar panels the batteries were changed out periodically by railroad maintenance crews.
- Knox Locomotive Fueling Station - Located on the south edge of the plant and processing area. Locomotives were diverted off the mainline through the facility.
- Murphy City was originally a location from which the rail line construction was coordinated. Subsequent use of the facility was for maintenance of way and consists of several buildings including a Minor Repair Building, Storage Building, and Reporting Building. Locomotives were not fueled at Murphy City but several ASTs exist for light vehicle fueling.

DOCK

Dock and Marine Fueling Facility - Provided unloading of finished taconite pellets from the railcars and loading to ore boats. The Marine Fueling Facility consisted of two large ASTs which were originally filled from rail cars. The filling since approximately 1968 was from truck transport. Above ground piping delivered fuel to the loading dock for marine traffic.

POWER PLANT

Power Plant and power line – provides electric power to operate the Hoyt Lakes plant. The Power Plant is not a portion of CE owned lands and is not included in this Phase I.

OTHER INFRASTRUCTURE

Infrastructure of the whole facility not described above includes the following:

1. Pellet Storage Area.
2. Administration Building.
3. General Shops – contained a weld shop, blacksmith shop, car shop, locomotive shop, electric shop, machine shop, rebuild shop, and carpenters shop.
4. Domestic Waste Water Treatment Plant (WWTP) - treated only sanitary sewage
5. Water Treatment Plant – provided potable water for the Hoyt Lakes facility.
6. Emergency Basin – received storm water and process overflow from the Coarse Crusher, Fine Crusher and Concentrator.
7. Red Water Basin – received storm water and process overflow from the Agglomerator and storm water from the Pellet Storage Area.
8. Colby Lake Pumping Station – provided water to the reservoir through a 36 inch line for plant process water and the Water Treatment Plant.
9. Dunka Constructed Wetland Treatment System and water treatment plant – provides metal reduction in water from waste rock stockpile seeps.
10. Heating Plant – provided hot water heat for the plant area buildings. Originally coal fired, the Heating Plant was converted to natural gas in 1994.

The primary buildings of the plant site are constructed into bedrock. Therefore, the lowermost portion of the building is well below grade. Floor drains and sump pumps discharge to the Emergency Basin or Red Water Basin.

UST AND AST INVENTORY

USTs were removed during the late 1980s and early 1990s and as a result there are currently no known USTs at the entire facility except for tank 001. Tank 001 is located at the Administration Building and was abandoned in place in the late 1970s to avoid building damage.

CE records provide documentation of existing ASTs and removed USTs. An attempt was made to inventory both existing and historical tanks using the following resources:

1. The AST Permit for the Hoyt Lakes Facility (AST Permit #5297).
2. The AST Permit for the Marine Fueling Facility (AST Permit # 51740).
3. The MPCA list of registered tanks (TABS site database) for Hoyt Lakes, Dunka, Murphy City, Marine Fueling Facility, and Taconite Harbor.
4. CE internal records.
5. Interviews with former LTVSMC Staff.
6. Site reconnaissance.

Tables 2 through 5 present existing outdoor ASTs, indoor ASTs, Removed ASTs and Removed USTs. The TABS database, and AST Permits are contained in Appendix E. It should be noted that the TABS site ID for Taconite Harbor applies to the Power Plant which is owned by MP and is not a part of this Phase I. However the Taconite Harbor database is presented in Appendix E to demonstrate apparent inaccuracies between the Power Plant tanks and tanks that existed at the Pellet Dock and Marine Fueling Facility. Some ASTs are listed under both databases and as result are listed in the AST permits. In addition, both databases contain several ASTs of approximately 180,000 gallon capacity. Review of air photos and interviews with former staff do not support the existence of these tanks. The only known tanks at the Marine Fueling Facility include the existing ASTs listed in Table 2 and one removed AST listed in Table 3. The removed AST stored #2 fuel oil used for heating the lines for the heavier #4 and #6 fuel oil.

The TABS databases listing for the Hoyt Lakes facility includes multiple listings for ASTs that cannot be accounted for through historical records reviewed to date. In addition, these ASTs are not included in the AST permit for Hoyt Lakes and are not included in Tables 2 through 5. The additional listings on the TABS database are either tanks that are accounted for under a different ID in Tables 2 through 5 or were mobile AST that no longer exist.

PROJECT BOUNDARIES AND OWNERSHIP

Lands that comprise the operating mine are those formerly owned or leased by LTVSMC. The purchase of the facility by CE and MP resulted in two parties owning lands within the mine area in addition to the leased lands. This Phase I applies to all lands that belonged to the operating mine that are not currently under ownership by MP.

Figure 1 presents a GIS map prepared by the MDNR, Minerals Division, that shows lands owned by CE, owned by MP and lands divided between CE and MP. It should be noted that the smallest land unit recognized by the map is a 40 acre parcel, although actual ownership may be less than the entire 40 acres.

MINE AND PLANT AREAS

REGIONAL GEOLOGY AND HYDROGEOLOGY

Bedrock geology underlying the entire mine and plant area consists of a sequence of, from oldest to youngest, (1) undifferentiated Archean volcanic and volcanogenic rocks, (2) the Pokegama Quartzite, (3) the Biwabik Iron Formation and (4) Virginia Formation. The sequence of the Pokegama, Biwabik and Virginia formations are gently folded and dip to the southwest at approximately 10 degrees. However, dips within localized areas of the mine may be very erratic with some dipping to the north. The Geologic Map of the Mesabi Iron Range (Meineke et.al.) is attached in Appendix F and contains descriptions of each geologic unit and shows the location of the mining areas and the plant site with respect to the various bedrock units. Notice that Area 6 (Dunka) lies at eastern extent of the Biwabik Iron Formation. Additional description of the bedrock geology can be found in Morey, D.G. (1993).

During the Pleistocene glacial event, the Biwabik Formation and associated bedrock provided an area more resistant to glacial erosion than bedrock to the north and south. The result is an east-west trending ridge that forms a watershed divide. Glacial deposits are distinctly different north of the divide from the deposits on the south side of the divide. North of the divide glacial sediments are associated with the Rainy Lobe and consist of thin patchy deposits of sandy, stony till overlying the scoured bedrock. Glacial deposits south of the divide are thicker, the uppermost associated with the DesMoine Lobe. These sediments are generally gray or red-brown silty to clayey tills. Most of the glacial sediments (overburden) have been stripped from the mine areas of the CE facility. In addition, other areas where overburden has not been stripped, contain overburden and waste rock stockpiles or tailings over the original ground surface.

The Hoyt Lakes Mine and plant area lies at the northern edge of the St. Louis River Watershed. Surface water from the Tailings Basin area flows north to the Embarrass River which drains south to a confluence with the St. Louis River. Surface water drainage from the most of the plant area and the mine area at Hoyt Lakes flows either south to Colby Lake, or east to the Partridge River which ultimately drains to the St. Louis River, via Colby Lake.

Local groundwater flow systems occur within the glacial overburden where it remains in sufficient thickness, and within overburden and waste rock stockpiles. These small local flow systems tend to be hydraulically isolated from other local flow, with discharge to small intermittent streams, wetlands or leakage to intermediate and regional flow systems within the Biwabik Iron Formation and Virginia Formation. The Virginia Formation and the Biwabik Iron Formation contain fracture systems sufficient to be considered as aquifers.

Mine dewatering over the years has produced enough drawdown around active mine pits that the water table lies within the fractured bedrock. Therefore, local groundwater elevations and flow directions are very complex across the entire facility.

The Dunka mine area lies within the Rainy Lake Watershed. Surface water drainage is easterly to the Dunka River which discharges to Birch Lake. Very little glacial overburden existed over the bedrock surface and mine dewatering has depressed the water table within the fractured bedrock. Local groundwater flow occurs within the overburden and waste rock stockpiles. Discharge from these stockpiles occurs as seeps to small streams and wetlands. Due to the geology of much of the waste rock from the Dunka mine, these seeps contain elevated concentrations of metals. Constructed Wetland Treatment Systems and an active Water Treatment Plant have been constructed to reduce the metal concentrations to acceptable levels prior to discharge to the Dunka River.

ENVIRONMENTAL RECORDS REVIEW

An Area Study Report was received from Environmental Data Resources, Inc. (EDR) and is attached in Appendix C. The Area Study Report differs from a Radius Report in that lands surrounding the subject property are not included. The ASTM criteria for minimum search radius surrounding the CE lands is not met. File evaluations included review of both federal and state records. The list of databases is included in the EDR report.

There were no reported sites, under any of the databases, that had sufficient location information for mapping. The Orphan Summary in the EDR Report lists all sites that may be within the area search boundaries based upon common location descriptions, but cannot be absolutely located. Review of the orphan listings yields the following sites that may be within the project boundary:

1. Former Monsanto Plant was obtained from the UST database with location information only as HWY 110. The listing contains two gasoline USTs and one fuel oil UST, all of which have been removed. The Tank owner was Viking Explosive. This site was not within the project boundary of this Phase I and is not considered an AOC.
2. Erie Mining Dump #2 was obtained from the MN LS database. Information within the listing states that the site is located approximately 2.5 miles north of CSAH 110. The MPCA ID is MNODIOOO1125. This is the same as site as the CE Private Landfill discussed elsewhere in this document.
3. Monsanto Co. was obtained from the RCRIS SQG-FINDS database. No violations were listed in the information and this site is not within the boundary of this Phase I.
4. Hoyt Lakes Demolition Landfill was obtained from the MN LS database. The location is listed as 2 miles north of 110. this is likely the same site as the closed Hoyt Lakes Landfill which is not a portion of this Phase I project area.
5. LTV Steel Mining Company was listed under FINDS, MN Spills, RCRIS-LQG, and MLTS databases. Most listings were related to specific waste generator manifest, record keeping violations, not necessarily related to a release. Eleven spill reports were included.

6. The USX Corp. McKinley Mine was obtained from the RCRIS-SQG database. No violations were reported in the listing and this property is not part of the CE property.

INTERVIEWS, ON SITE RECONNAISSANCE AND ARIAL PHOTO REVIEW

One primary site reconnaissance of the Hoyt Lakes Facility was conducted on June 19, 2002. Several follow up visits occurred on July 24, 2002 and July 29, 2002. Jim Stanhope accompanied NTS on the primary reconnaissance. In addition, the following table summarizes the persons interviewed.

TABLE 1: SUMMARY OF VERBAL CONTACTS

Contact	Relationship to the facility	Title	Interview Date	Number
Jim Stanhope	EMC, LTVSMC employee 1968 to 2001	Environmental Engineering Supervisor	Various	218/225-4242
Richard Erchul	EMC, LTVSMC employee 1967 to 2001	Staff Services Coordinator	5/02 – 7/02	218/225-4263
Jim Scott	EMC and CCI employee 1970 to present	Manager of Operations	Various	218/225-4217
Bruce Gerlach	CCI employee	Facility Manager	7/25/02	218/225-4261
Dave Youngman	EMC, LTVSMC employee 1968 to 2001	Lands Supervisor	Various	218/225-4223

EMC and LTVSMC performed areal surveys of various portions of the facility routinely. The following photographs were reviewed:

1. Chronoflex photos of the plant and tailings basin areas for the years 1979 through 2000 (scale of the photos are 1" = 1500' to 1' = 200').
2. Photomosaics for the Hoyt Lakes and Taconite Harbor areas for the years 1948 and 1955.
3. Regular air photos for the years 1980 through 1996.

The air photos were reviewed to determine if AOCs exist that were not identified through other data sources. The air photos were not necessarily used to document changing conditions of the

AOCs already identified. It is anticipated that air photos will be an important resource in preparation of Sampling and Analysis Plans (SAPs).

Figure 2 presents the locations of each area within the Hoyt Lakes facility and Figures 3 through 12 provide details of each area along with locations of AOCs.

AREA 1

Area 1 is located at the northwest portion of the mine areas contains one of the largest open pits of the facility. The open pit was actively dewatered until 1987. The pit is currently overflowing through road grade at the southeast side of the area.

The Area 1 Shops (AOC-1, Figure 3) were visited during the reconnaissance. Figure 6 presents detail drawing of the Area 1 Shops. This area provided the mining service support mentioned earlier in this report. Domestic waste water is connected to a septic tank and drain field system. Floor drains and other industrial waste water was contained and reused with residuals from oil water separators disposed of through outside services. A closed leak site exists for the fueling portions of the shops.

The Area 1 W petroleum contaminated soil land application site (AOC-2, Figure 3) was visited and appears in good condition, no odors or staining were apparent. An area near the western extent of Area 1 where municipal waste water treatment plant sludge from Aurora and Hoyt Lakes was land applied (AOC-3, Figure 3) has no discernable impacts. The land application site has heavy brush and is located on a north facing slope. Sludge application was discontinued during 1988.

The 1004 Material and Equipment Storage Area (AOC-4, Figure 3) is a lay-down area containing cable equipment, salvaged equipment and other materials. The area is on top of a waste rock stockpile. Several areas with soil staining were observed. The heaviest soil staining was observed in a portion of the area was used for salvaging equipment. A deep ravine borders the west edge of the 1004 area and contains large amounts of demolition debris, scrap metal and several barrels.

Several hundred feet east of the 1004 storage area is a demolition debris disposal area containing asphalt and rubber roofing material removed from various plant buildings (AOC-5, Figure 3). The roofing material was compacted with a loader or dozer during placement and buried with waste rock boulders. The material was observed commingled with the waste rock.

Interviews identified two areas that are not a portion of the Private Landfill, but are very close to the footprint. The first is an area where oily waste from floor drains in the General Shops area was dumped at the land surface (AOC-6, Figure 3). This disposal was discontinued in 1980 when Berg Oil (currently OSI Environmental, Inc.) was contracted to accept the waste. The second area near the landfill reportedly received a one time disposal of heavy lubricant (bull gear grease) in the 1970s (AOC-7, Figure 3). No visible signs of the disposal were evident during the site inspection or on air photos reviewed.

The Private Landfill (AOC-8, Figure 3) was a permitted (SW-17) industrial waste landfill that operated until 1993. The landfill has gone through routine hydrogeologic investigation as required by Minnesota Solid Waste Rules. Five monitoring wells installed around the perimeter of the landfill are currently monitored once per year with routine quarterly inspections of the cover. Hydrogeologic evaluation documents as well as annual monitoring reports are available for the landfill. During the site reconnaissance, the cover and vegetation appeared to be in good condition.

The Panel Yard (AOC-9, Figure 3) is located near the northeast portion of Area 1 and originally was an area where railroad panels were constructed. Railroad panels are sections of rail and ties prefabricated to allow temporary rail lines to be constructed. Areas near the perimeter of the panel yard contain large volumes of railroad ties. The ties are typically buried with waste rock. Several of the disposal areas contain co-mingled waste including scrap metal, wood, and other demolition and industrial waste. The Panel Yard has also been used as a general laydown area with equipment in various stages of demolition. Areas of soil staining are evident.

The Airport (AOC-10, Figure 3) is an area immediately south of the Panel Yard. The name Airport was adopted because it is where abundant equipment and materials "landed" after they were no longer serviceable. Currently most of the materials and equipment have been salvaged. However, several pieces remain. Areas of soil staining are evident throughout the Airport.

Several hundred feet south of the Airport is a Coal Ash Disposal Area (AOC-11, Figure 3). The ash was generated from the old stoker coal fired Heating Plant. The disposal was discontinued in the 1980s when ash was used to cover the Private Landfill. The Heating Plant was converted to natural gas in 1994. The coal ash has only marginal cover.

An area containing large volumes of mill rejects (hard rock fragments) and scrap material generated from various rebuild and improvement projects is located at the extreme northeast boundary of Area 1 (AOC-12, Figure 3).

AREA 2, 2E AND 3

This area lies near the eastern extent of the Hoyt Lakes facility and contains significantly less infrastructure and areas of potential concern than Area 1. The Dunka Road and the Taconite Harbor Railroad Corridor exit the Hoyt Lakes facility through this area.

At the far northern boundary of this area is the 2001 Material and Equipment Storage Area (AOC-13, Figure 4). Various types of equipment and materials, including transformers, were observed in this area with several areas of soil staining.

Near the northwest boundary of Area 2, 2E and 3 is a facility for sandblasting and painting locomotives and railcars (AOC-14, Figure 4). The facility consists of an open sided roofed structure with rail line entering, a sand hopper, and several storage buildings and compressor building. A buildup of blasting sands is evident.

Near the western boundary of Area 2, 2E and 3 is a railroad siding that is a designated railroad equipment storage area (AOC-15, Figure 4). Several locomotives and various other small equipment were observed in this area. Soil staining appeared to be limited to the siding tracks.

The Area 2 Loading Pockets were observed. One pocket is a vibratory type (AOC-16, Figure 4) and one pocket is a Superpocket (AOC-18, Figure 4). Small amounts of hydraulic oil stained soil was observed near the Superpocket. A Truck Fueling Station, constructed with a roof and containment system, is also located in this area.

A building for storage of solid blasting materials is located near the east end of this area. However, materials were containerized and no evidence of a release was identified.

AREA 2W

Very little infrastructure exists in Area 2W and no AOCs were identified. Reporting, truck fueling and loading for Area 2W was done at Area 2. The mainline Rail Corridor forms the eastern and northern boundary.

The Missabe Location existed in Area 2W but is not considered an AOC since large volumes of overburden and rock have been mined from the former location.

AREA 2WX

This is the most recently developed mining area and contains both a vibratory Loading Pocket (AOC-22, Figure 6) and a Superpocket (AOC-23, Figure 6). Both were observed during the site reconnaissance. A small lube station exists near the Superpocket. A Truck Fueling Station is located immediately south of the loading pockets and is constructed with a roof and containment system (AOC-21, Figure 6). The Reporting Area (AOC-19, Figure 6) includes an area for materials and equipment storage where several patches of soil staining were observed. A well, septic tank and drain field system remain in place. Finally, a shovel was dismantled in an area west of the loading pockets (AOC-20, Figure 6) where soil staining was observed.

AREA 5

This area is the most northern of the mining areas at the Hoyt Lakes Facility and contains the headwaters of Wyman Creek. Most of the eastern half of the area has undergone mine land reclamation and is covered with vegetation. Truck fueling in Area 5 was accomplished with mobile ASTs.

The Reporting Area (AOC-24, Figure 7) includes a scrap and salvage area where some stained soil was observed. Most of the scrap has been removed. A well, septic tank and drain field system remain in place.

The Area 5 vibratory Loading Pocket was observed (AOC-25, Figure 7). No soil staining was apparent in this area. However, the rail line to the Loading Pocket contains a siding where rail cars and locomotives have been stored. Some stained soils was observed along the siding.

AREA 6, AREA 9N AND AREA 9S

These areas comprise the southwest portion of the mining areas and are discussed here collectively. Of most significance is the location of Pre-Tac (AOC-30, Figure 9) which was located on the western edge of Area 9N. The plant was demolished in the late 1950s and the only observable evidence of the plant today is some concrete slabs and foundations. Figure 19 shows a drawing of the plant, although features on the drawing are not labeled. The location is currently only accessible by ATV or foot.

The former Area 1W Reporting Area was actually located in the northern section of Area 9N. This area is also only accessible by a ATV or foot. No observable environmental conditions were noted at this site however, a septic system was associated with this Reporting Area.

The Area 9 Loading Pocket (AOC-31, Figure 10) is a vibratory type. The Area 6 and Area 9 Reporting Area has a septic tank and drain field system in place. The former Aurora City Dump (AOC-28, Figure 8) was located at the west boundary of Area 9S. The majority of the dump was reported as removed during mining of Area 9S to Stockpile #9021 (AOC-29, Figure 8). However some scrap wood, cans and litter are observable today.

A misfired blast (AOC - 27, Figure 8) occurred in Area 6 on March 8, 1999. Approximately 95, of 220 blast holes were undetonated. The blasting material consists primarily of 25% ammonium nitrate and 75% mineral oil.

The Evergreen Trailer Park was located within this area. The trailer park contained mobile homes and presumably had wells and septic systems. The only evidence of the trailer park today are remnants of roads and non-indigenous shrubbery.

PLANT AND PROCESSING AREA

The Tailings Basin portion of the plant and processing area is a large dike constructed of tailings with road access along the top of the lifts. Tailings were discharged as a slurry with process water. The design of the dikes allows the tailings to settle and the process water to be recycled back to the plant. The Colby Lake Pumping Station provided process water to offset any losses due to seepage, evaporation and water loss up the furnace stacks. Several pumping stations are located in the Tailings Basin and several transformers exist (AOC-48, Figure 12). CE records indicate that these transformers currently contain non-PCB mineral oil. An area within Cell 2W contains buried hornfels (AOC-53, Figure 12). Hornfels is a waste rock type containing sulfide minerals. Monitoring wells are installed surrounding the hornfels burial site and are monitored as part of the NPDES permit. The Tailings Basin Reporting Area (AOC-47, Figure 12) is located at the road access point. This Reporting Area contains a lube station. In addition, two USTs were removed in 1988 and a septic tank and drain field system remain in place.

Several other notable features surround the tailings basin dikes. An area immediately west of the Tailings Basin Reporting Area contains several small equipment and materials storage locations (AOC-51, Figure 12). Most of the salvageable materials are gone. However several soil stained areas were observed. The Cell 2W salvage area (AOC-52, Figure 12) is located along the western edge of the Tailings Basin. Salvage operations are evident with several small soil stained areas as well the remains of a mobile AST containing Choherex, a petroleum based dust suppressant.

The eastern margins of the Tailings Basin contain an area where WTP sludge from the Dunka Water Treatment Plant was staged (AOC-35, Figure 12). The sludge has been shipped offsite and little evidence of it's existence were observed.

The Coal Ash Landfill (AOC-34, Figure 11) is located south of the sludge staging area. The coal ash was generated at the Taconite Harbor power plant and shipped back to Hoyt Lakes on rail cars. The landfill cover appears in good condition. Inspection of the cover is conducted as part of NPDES requirements.

The Line 9, Area 5 permitted petroleum land application site (AOC-36, Figure 12) is located adjacent east of the Tailings Basin. This land application site contains approximately 25,000 cubic yards of soil from the Area 1 Shops Tank Farm cleanup and the Knox Fueling Station cleanup. The site appears in good condition. Monitoring data is available.

The Area 2 Shops (AOC-38, Figure 12) were visited, this area was the primary shop for the eastern mining areas and currently contains a Locomotive Fueling Station for the in-mine locomotives. A septic tank and drain field remain in place.

The Knox Fueling Station (AOC-39, Figure 12) contains one AST. Containment structures are provided below the dispenser lines.

The Heavy Duty Garage (AOC-40, Figure 12) is located on a hill adjacent to the plant site proper. The facility has been used only for cold storage since approximately 1960. However, it was previously used for equipment maintenance and one UST has been removed near the facility.

The Oxygen Plant (AOC-41, Figure 12) produced oxygen through a series of ambient air compressions. The oxygen was used in drilling. With the introduction of more modern drilling methods the oxygen use was phased out. Several USTs have been removed from the Oxygen Plant.

The Bunker C Tank Farm (AOC-42, Figure 12) is currently being investigated under the LUST program (Leak #12254). The finished pellet storage and loadout area (AOC-45, Figure 12) is a large flat surface with little notable features. However, the rail line that access the loadout facility contains appreciable soil staining and heavy oil residue in an adjacent ditch.

The Administration Building (AOC-43, Figure 12) did not have any notable features. However, one heating oil UST was abandoned in place. Domestic waste was pumped to the plantsite WWTP. The Administration Building is still active. Therefore, a new well and septic system were installed in 2001. Several hundred feet from the Administration Building is the Main Gate Fueling Station (AOC-44, Figure 12). The station consists of two ASTs used for fueling light trucks.

The plant site proper (AOC-46, Figure 12) is considered the core of the plant and processing area where the taconite process was conducted. Figure 15 provides detail of the infrastructure of the plant itself.

The Colby Lake Pump Station (AOC-59) is located distant from the plant area but provides process and drinking water to the plant and therefore is considered part of the plant infrastructure. The pumps and associated equipment are located within a large block and metal sided building. One heating oil AST was removed in approximately 1970 when natural gas became available. The concrete pedestals for the AST remain. The pumps are electric and an associated transformer is located adjacent to the building.

AREA 8 (DUNKA MINE)

The Dunka Mine is remote from the other mining areas and the plant. A rail line provided shipping of ore back to the plant site. Since the mine was remote from the rest of the facility, a shops area (AOC-32, Figure 11) was constructed as previously mentioned. The shops were demolished in 1998 and the area has been covered and seeded. A closed leaksite exists in association with the Dunka Shops.

The North and South Loading Pockets (AOC-33 and AOC-34, Figure 11) existed at Dunka, each had a fueling system. The Reporting Area had well and septic systems which were abandoned.

The geology of the Dunka mine is different from the remaining mining areas in that the taconite is in close proximity to the Duluth Complex. This association produced a zone of sulfide rich rocks. Some of the sulfide mineral containing rocks have been removed and placed in stockpiles. Groundwater seeps that discharge from the stockpiles have elevated concentrations of several metals and low pH. A full scale metals water treatment system has been constructed. In addition, Constructed Wetland Treatment Systems have been built at each of the identified seeps. Since this condition is regulated through the NPDES permit, no additional scrutiny of the seeps is recommended as part of this Phase I. The Water Treatment Plant is powered by electricity. No fuel tanks were identified associated with the plant building.

TACONITE HARBOR

REGIONAL GEOLOGY AND HYDROGEOLOGY

A very thin layer of glacial drift may overlie volcanic bedrock, although bedrock is exposed at the ground surface throughout much of the Taconite Harbor Area. The drift is a red-brown, clay to silty clay. The volcanic bedrock is part of the Northshore Volcanic Group; a thick sequence of southeast dipping lava flows. The local members of the lava flows are named the Schroeder Basalt.

Taconite harbor lies within the Lake Superior Water shed where surface water flow is southeast toward Lake Superior. The thin drift may support a local groundwater flow system over the bedrock. If local flow occurs, discharge is typically at creeks, seeps or leakage to the bedrock flow system. Groundwater flow within bedrock occurs in fractured basalt or within inter-flow sediments. The fracture flow systems tend to be somewhat isolated from one another, often with dead-end flow (no discharge). Where, fracture zones are hydraulically connected, intermediate groundwater flows is southeast, toward Lake Superior.

ENVIRONMENTAL RECORDS REVIEW

An Area Study Report was received from EDR and is attached in Appendix D. There were seven sites listed in the report that had sufficient information to locate on a map of the search area.

1. The Taconite Harbor Power Plant was listed under the Emergency Response Notification System (ERNS) records. This site is not within the boundaries of this Phase I and is currently owned by MP.
2. The Taconite Harbor Power plant was listed under the state LUST database. This site is not within the boundaries of this Phase I and is currently owned by MP.
3. Three listings were found under the MN Spills database that contain sufficient information to attribute the spill to the power plant.
4. Two listings were found under the MN Spills database that did not have sufficient information to determine where the spill occurred.

The Orphan summary in the EDR report lists all sites that may be within the area search boundaries based upon common location descriptions, but cannot be adequately located. Review of the Orphan Summary did not find any sites attributable to the CE facility.

INTERVIEWS, ON-SITE RECONNAISSANCE AND ARIAL PHOTO REVIEW

The Taconite Harbor Pellet Dock and a Marine Fueling Facility were inspected on July 25, 2002. The Marine Fueling Facility consists of two Large ASTs (AOC-54, Figure 13) and associated lines and pump house are currently being addressed under the LUST program (Leak #12252).

The "Oil Track" (AOC-55, Figure 13) is a siding off the main rail line where fuel oil was off loaded from rail cars to the ASTs. The Oil Track was not used for off loading oil after approximately 1970. However, some buildup of heavy lubricants and oil was observed along the track grade. In addition, one mobile AST, used for fueling light track vehicles existed adjacent to the grade and some demolition debris and waste soils piles were observed adjacent to the track grade.

RAILROAD CORRIDOR AND MURPHY CITY

REGIONAL GEOLOGY AND HYDROGEOLOGY

The Railroad Corridor transects a remote portion of Northeast Minnesota and three separate watersheds. The Corridor begins at Hoyt Lakes which lies within the St. Louis River Watershed and enters the Rainy Lake Watershed in T.59N, R.11W. Finally the railroad enters the Lake Superior Watershed in about T.58N, R.9W. Murphy City lies within the Lake Superior Watershed.

Bedrock geology at the western end of the corridor is shown on Appendix G and consists of the Animikie Group which contacts the Duluth Gabbro several miles east of the Hoyt Lakes facility. This contact between the Duluth Gabbro Complex and the Animikie Group has been extensively explored for non-ferrous metal reserves. The corridor is underlain by the gabbro as it extends eastward. The Northshore Volcanic sequence as previously described, underlies the eastern sections of the corridor.

Glacial drift varies in thickness accross the corridor ranging from several feet on the eastern end to more than 100 feet on the mid sections of the corridor. The deposits tend to be sandy to stony till ranging in color from brown on the western end to red-brown on the eastern end. Peat and sandy glacial outwash is common on the western portions of the railroad

ENVIRONMENTAL RECORDS REVIEW

A database search of standard environmental records was not obtained for the railroad corridor or Murphy City.

INTERVIEWS, ON-SITE RECONNAISSANCE AND ARIAL PHOTO REVIEW

The entire corridor from the Hoyt Lakes facility to Taconite Harbor was inspected on July 25, 2002. In general, the Railroad Corridor contained few notable environmental conditions. Occasional railroad ties are discarded along the corridor and switches contain small areas with lubricant build-up on the ballast. However, this material is limited to the area immediately surrounding the switches. Near the Taconite Harbor end of the corridor, large curves exist in the track with rail lubricators installed at each curve (AOC-58, Figure 12). Rail lubricators also exist along the rail corridor east of Murphy city in the general vicinity of mile marker 55. Some buildup of the grease on the ballast was observed at these locations. Several Battery Houses were observed with all batteries removed. These are small structures containing batteries that operate signals, detectors and electrical switches. The batteries are recharged with solar panels. No indications of a release were observed around the battery houses.

Murphy City (AOC-57, Figure 17) consists of four main buildings; a Repair Building, Storage Building, Lubricant Oil Storage and Reporting Building. The Repair Building was used for light service on track maintenance equipment, soil staining was evident along the tracks leading into the Repair Building. A well and septic system are associated with the Reporting Building. The Oil Storage Building has a wood floor and contains some surrounding stained soil. Two USTs were removed from the Murphy City facility in the 1990s and replaced with two ASTs. These tanks are listed in Table 2 and 5. A laydown area for various wood, scrap metal, rails and railroad ties is located adjacent to the rail siding entering the facility. In addition a small pile of general demolition waste is located in the laydown area. Figure 17 presents a detail drawing of Murphy City.

CONCLUSIONS

NTS has performed this Phase I Environmental Site Assessment of the CE Facility in general conformance with the scope and limitations of ASTM Practice E 1527-00 as well as VIC Guidance document # 8. Uniqueness' in the methodology are described in the Limitations and Methodology section of this report. This report uses the term Area of Concern (AOC) as a discrete area of the property where a known release, or a material threat of a release is identified by the level of inquiry provided by this document. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

NTS has identified 59 AOCs which are summarized in Table 6. NTS recommends that CE determine a prioritization of the AOCs and prepare a Quality Assurance Plan (QAP) which outlines the Phase II methods and decision process. Following VIC Staff approval of the QAP Sampling and Analysis Plans (SAPs) should be prepared to address the AOCs. Each SAP should contain sufficient detail on the process and waste stream associated with the AOC. This detail

should be used to develop a sampling strategy in accordance with the MPCAs Draft Risk Base Site Characterization and Sampling Guidance.

REFERENCES

Meinike, D.G., Buchheit, R.L., Dahlberg, E.H., Morey, G. B., Warren, L.E., 1999, Geologic Map Mesabi Iron Range, Minnesota, Second Edition.

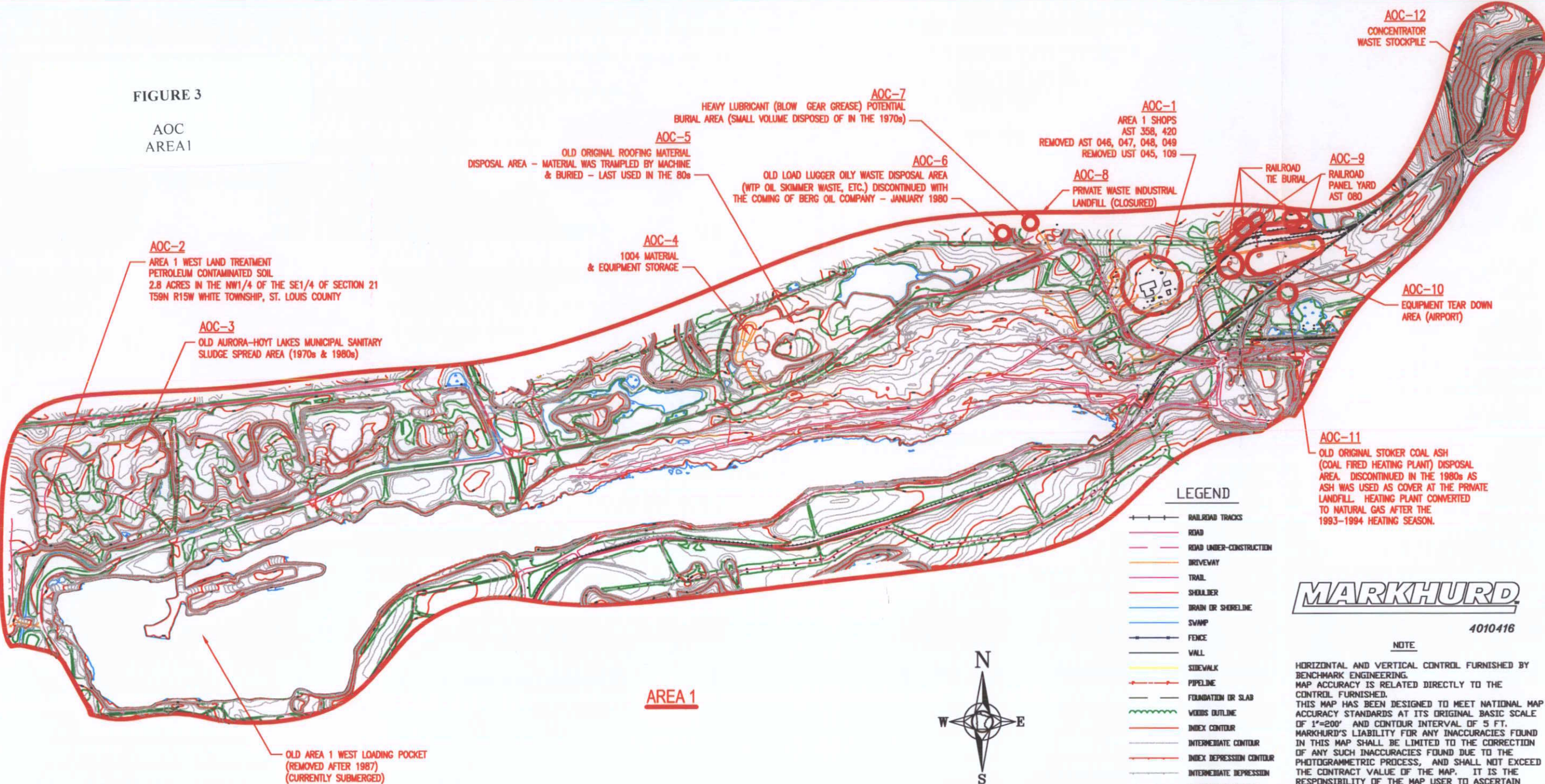
Morey G.B., 1993, Geology of the Mesabi Iron Range: Institute on Lake Superior Geology Proceedings, 39 Annual Meeting, Eveleth, MN, 1993, v.39, part 2, p1-18.

APPENDIX A – FIGURES

FIGURE 1	PROPERTY LOCATIONS AND OWNERSHIP
FIGURE 2	HOYT LAKES MINING AND PLANT AREAS.
FIGURE 3	AOC - AREA 1
FIGURE 4	AOC - AREA 2, 2E AND 3
FIGURE 5	AOC-AREA 2W
FIGURE 6	AOC - AREA 2WX
FIGURE 7	AOC – AREA 5
FIGURE 8	AOC – AREA 6
FIGURE 9	AOC – AREA 9S
FIGURE 10	AOC – AREA 9NW
FIGURE 11	AOC – AREA 8 (DUNKA)
FIGURE 12	AOC – PLANT AND PROCESSING AREA
FIGURE 13	AOC – TACONITE HARBOR
FIGURE 14	AREA 1 SHOPS DETAIL
FIGURE 15	AREA 2 SHOPS DETAIL
FIGURE 16	PLANT DETAIL
FIGURE 17	MURPHY CITY DETAIL
FIGURE 18	TACONITE HARBOR DETAIL
FIGURE 19	ERIE PRELIMINARY TACONITE PLANT DETAIL

FIGURE 3

AOC
AREA 1



AREA 1

OLD AREA 1 WEST LOADING POCKET
(REMOVED AFTER 1987)
(CURRENTLY SUBMERGED)

LEGEND

- RAILROAD TRACKS
- ROAD
- ROAD UNDER CONSTRUCTION
- DRIVEWAY
- TRAIL
- SHOULDER
- DRAIN OR SHOULDER
- SWAMP
- FENCE
- WALL
- SIDEWALK
- PIPELINE
- FOUNDATION OR SLAB
- VOIDS OUTLINE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- INDEX DEPRESSION CONTOUR
- INTERMEDIATE DEPRESSION
- APPROXIMATE CONTOUR
- UNDER CONSTRUCTION OUTLINE
- UNIDENTIFIED OBJECT

- CULVERT
- END OF CULVERT
- UTILITY POLE
- FLAG POLE
- RAILROAD CROSSING SIGN
- RADIO, TV TOWERS
- HORIZONTAL CONTROL POINT
- VERTICAL CONTROL POINT
- SWAMP SYMBOL
- COMMERCIAL SIGN
- TREE

MARKHURD

4010416

NOTE
HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED. THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET
TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.
HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.
VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT. GRID SHOWN AT A 1000 FOOT INTERVAL.

AURORA SITE



I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly registered PROFESSIONAL ENGINEER or GEOLOGIST under MINNESOTA State Law.
Date: _____ Registration #: _____

REVISION	DESCRIPTION
DATE	

PROJECT #: 5796.08
DATE: SEPTEMBER 2002
DWG. FILE: Figure 3
SCALE: 1" = 2000'

PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE LLC
HOYT LAKES, MINNESOTA
HOYT LAKES FACILITY, AREA 1

FIGURE
3

I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly registered PROFESSIONAL ENGINEER in the State of MINNESOTA.

Date: _____ Registration #: _____

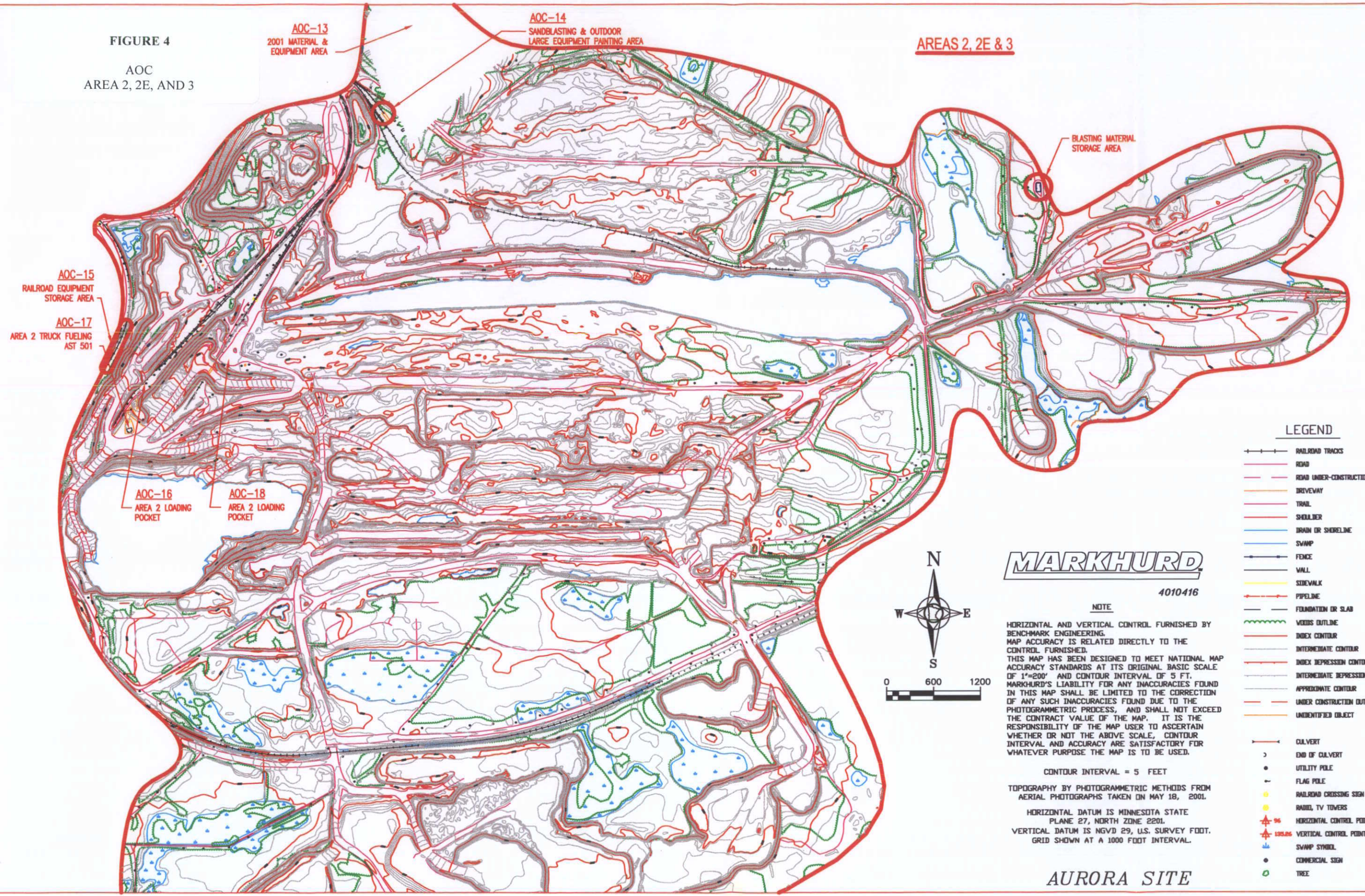
DATE	REVISION DESCRIPTION

PROJECT #: 5798.08
 DATE: SEPTEMBER 2002
 DWG. FILE: Figure 4
 SCALE: 1" = 1200'

PHASE I ENVIRONMENTAL SITE ASSESSMENT
 CLIFFS ERIE LLC
 HOYT LAKES, MINNESOTA
 HOYT LAKES FACILITY, AREAS 2, 2E, & 3

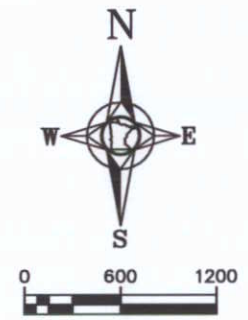
FIGURE
 4

FIGURE 4
 AOC
 AREA 2, 2E, AND 3



LEGEND

- RAILROAD TRACKS
- ROAD
- ROAD UNDER CONSTRUCTION
- DRIVEWAY
- TRAIL
- SHOULDER
- DRAIN OR SHORELINE
- SWAMP
- FENCE
- WALL
- SIDEWALK
- PIPELINE
- FOUNDATION OR SLAB
- WOODS OUTLINE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- INDEX DEPRESSION CONTOUR
- INTERMEDIATE DEPRESSION
- APPROXIMATE CONTOUR
- UNDER CONSTRUCTION OUTLINE
- UNIDENTIFIED OBJECT
- CULVERT
- END OF CULVERT
- UTILITY POLE
- FLAG POLE
- RAILROAD CROSSING SIGN
- RAILROAD TV TOWERS
- HORIZONTAL CONTROL POINT
- VERTICAL CONTROL POINT
- SWAMP SYMBOL
- COMMERCIAL SIGN
- TREE



MARKHURD
 4010416

NOTE
 HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED.
 THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET
 TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.
 HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.
 VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT.
 GRID SHOWN AT A 1000 FOOT INTERVAL.

AURORA SITE

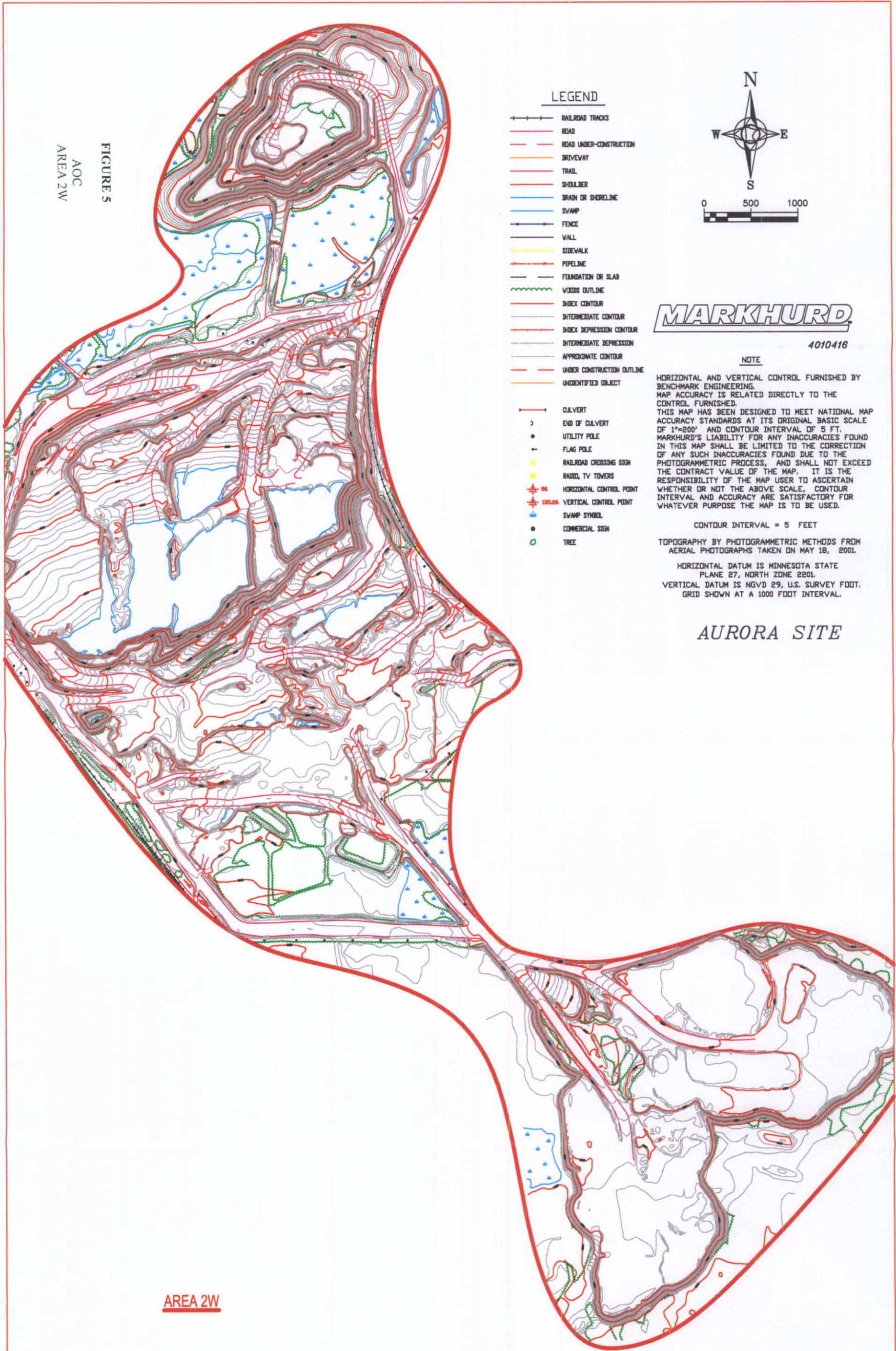


FIGURE
5

PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE LLC
HOYT LAKES, MINNESOTA

HOYT LAKES FACILITY, AREA 2W

PROJECT #: 5796.08

DATE: SEPTEMBER 2002

DWG. FILE: Figure 5

SCALE: 1" = 1000'

DATE	REVISION	DESCRIPTION

I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly registered PROFESSIONAL ENGINEER or GEOLOGIST under MINNESOTA State Law.

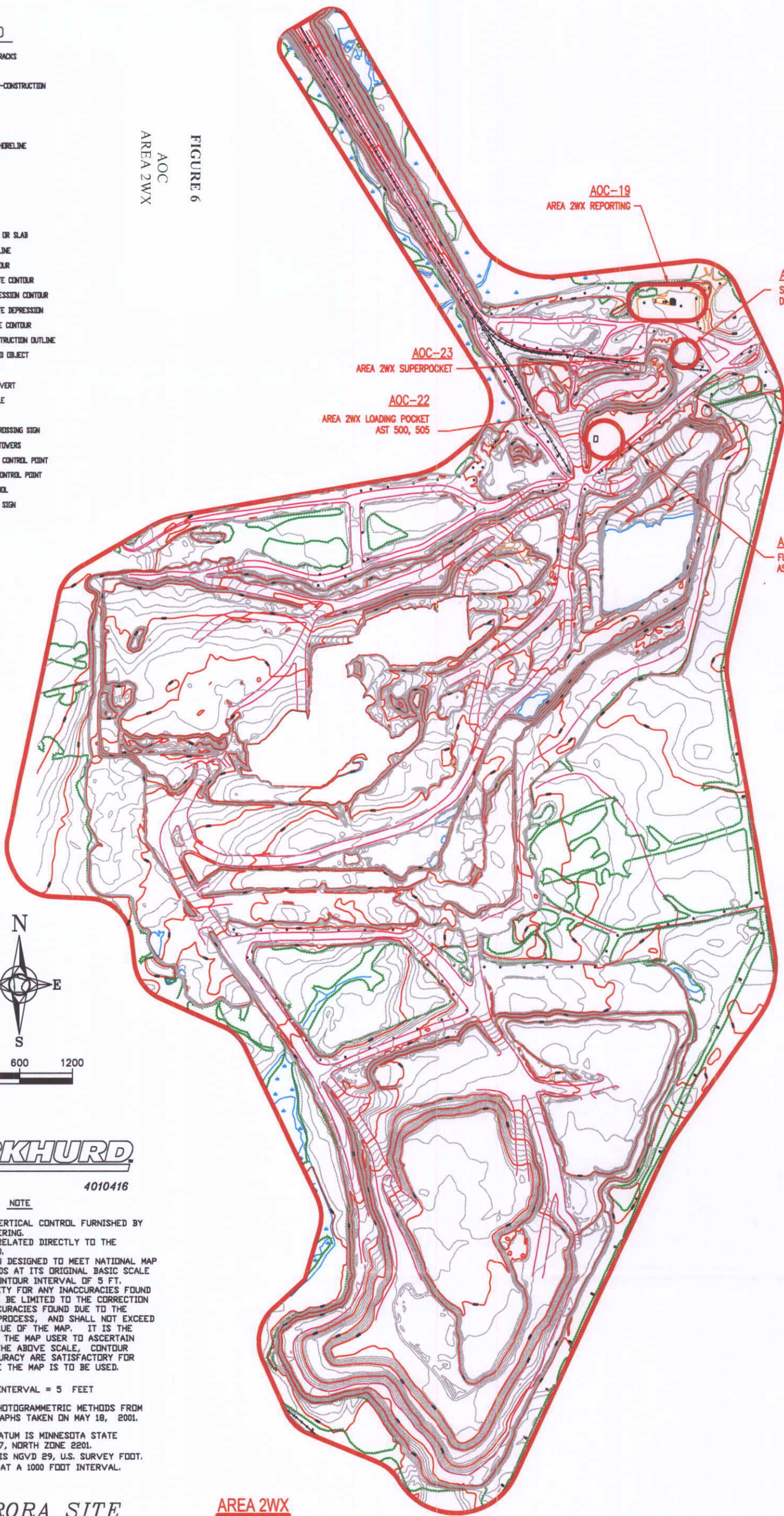
Date: _____ Registration #: _____



LEGEND

- RAILROAD TRACKS
- ROAD
- ROAD UNDER-CONSTRUCTION
- DRIVEWAY
- TRAIL
- SHOULDER
- DRAIN OR SHORELINE
- SWAMP
- FENCE
- WALL
- SIDEWALK
- PIPELINE
- FOUNDATION OR SLAB
- WOODS OUTLINE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- INDEX DEPRESSION CONTOUR
- INTERMEDIATE DEPRESSION
- APPROXIMATE CONTOUR
- UNDER CONSTRUCTION OUTLINE
- UNIDENTIFIED OBJECT
- CULVERT
- END OF CULVERT
- UTILITY POLE
- FLAG POLE
- RAILROAD CROSSING SIGN
- RADIO, TV TOWERS
- HORIZONTAL CONTROL POINT
- VERTICAL CONTROL POINT
- SWAMP SYMBOL
- COMMERCIAL SIGN
- TREE

FIGURE 6
AOC
AREA 2WX



MARKHURD

4010416

NOTE

HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED. THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET

TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.

HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.

VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT. GRID SHOWN AT A 1000 FOOT INTERVAL.

AURORA SITE

AREA 2WX

FIGURE 6

PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE LLC
HOYT LAKES, MINNESOTA

HOYT LAKES FACILITY, AREA 2WX

PROJECT #: 5796.08

DATE: SEPTEMBER 2002

DWG. FILE: Figure 6

SCALE: 1" = 1200'

REVISION DESCRIPTION

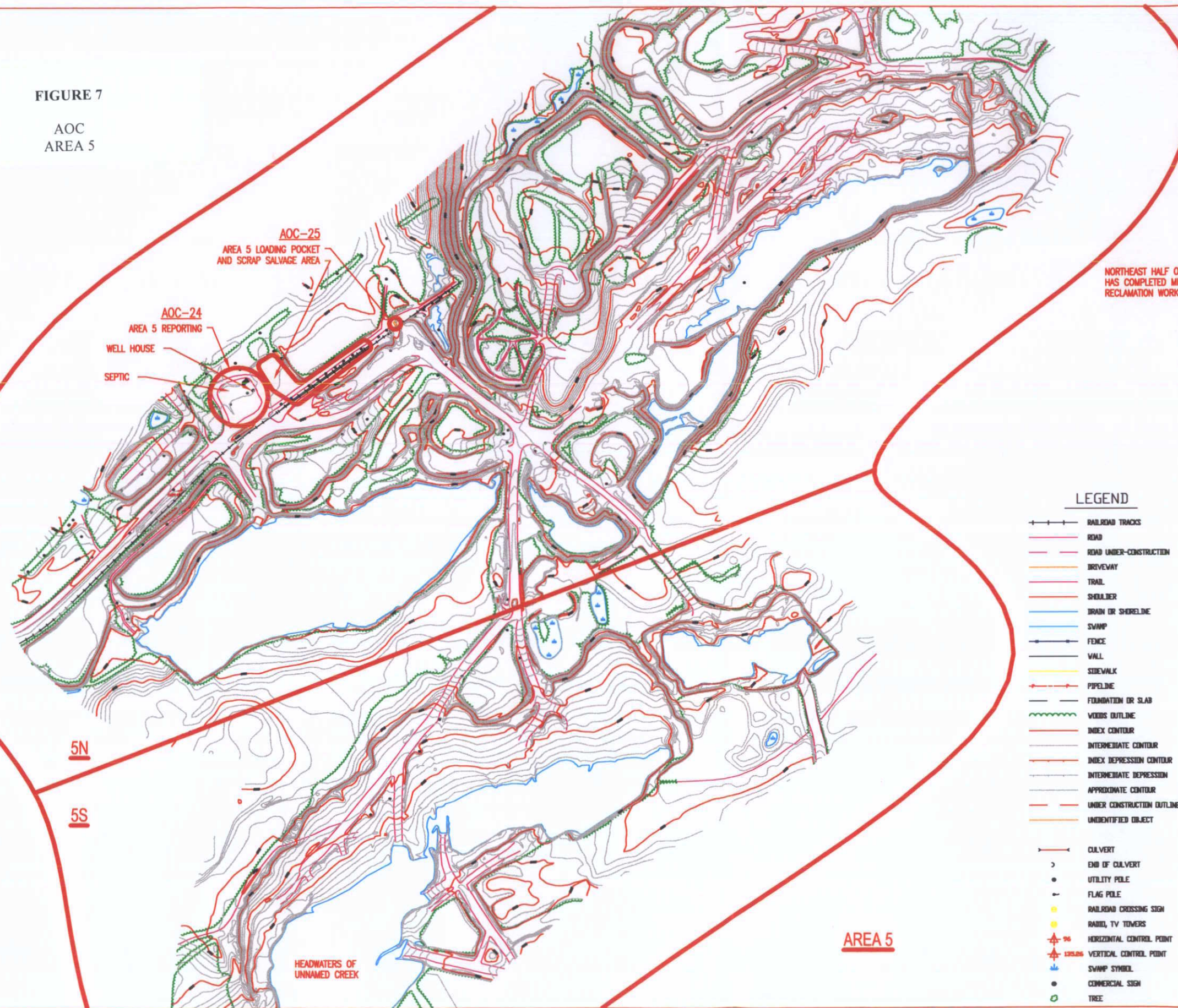
I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly registered PROFESSIONAL ENGINEER or GEOLOGIST under MINNESOTA State Law.

Date: _____ Registration #: _____

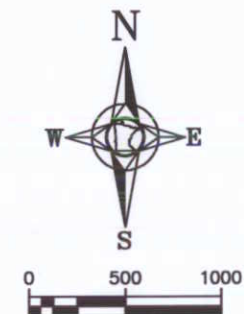
NTS
Northman & Technical Services
315 CHESTNUT STREET
VIRGINIA, MN 55792
218-741-4290

FIGURE 7

AOC
AREA 5



NORTHEAST HALF OF AREA 5
HAS COMPLETED MINELAND
RECLAMATION WORK.



LEGEND

- RAILROAD TRACKS
- ROAD
- ROAD UNDER-CONSTRUCTION
- DREVEWAY
- TRAIL
- SHOULDER
- DRAIN OR SHOULDER
- SWAMP
- FENCE
- WALL
- SIDEWALK
- PIPELINE
- FOUNDATION OR SLAB
- VOIDS OUTLINE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- INDEX DEPRESSION CONTOUR
- INTERMEDIATE DEPRESSION
- APPROXIMATE CONTOUR
- UNDER CONSTRUCTION OUTLINE
- UNIDENTIFIED OBJECT
- CULVERT
- END OF CULVERT
- UTILITY POLE
- FLAG POLE
- RAILROAD CROSSING SIGN
- RADIO, TV TOWERS
- HORIZONTAL CONTROL POINT
- VERTICAL CONTROL POINT
- SWAMP SYMBOL
- COMMERCIAL SIGN
- TREE

MARKHURD

4010416

NOTE

HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED. THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET

TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.

HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.

VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT. GRID SHOWN AT A 1000 FOOT INTERVAL.

AURORA SITE



I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.

Date: _____ Registration #: _____

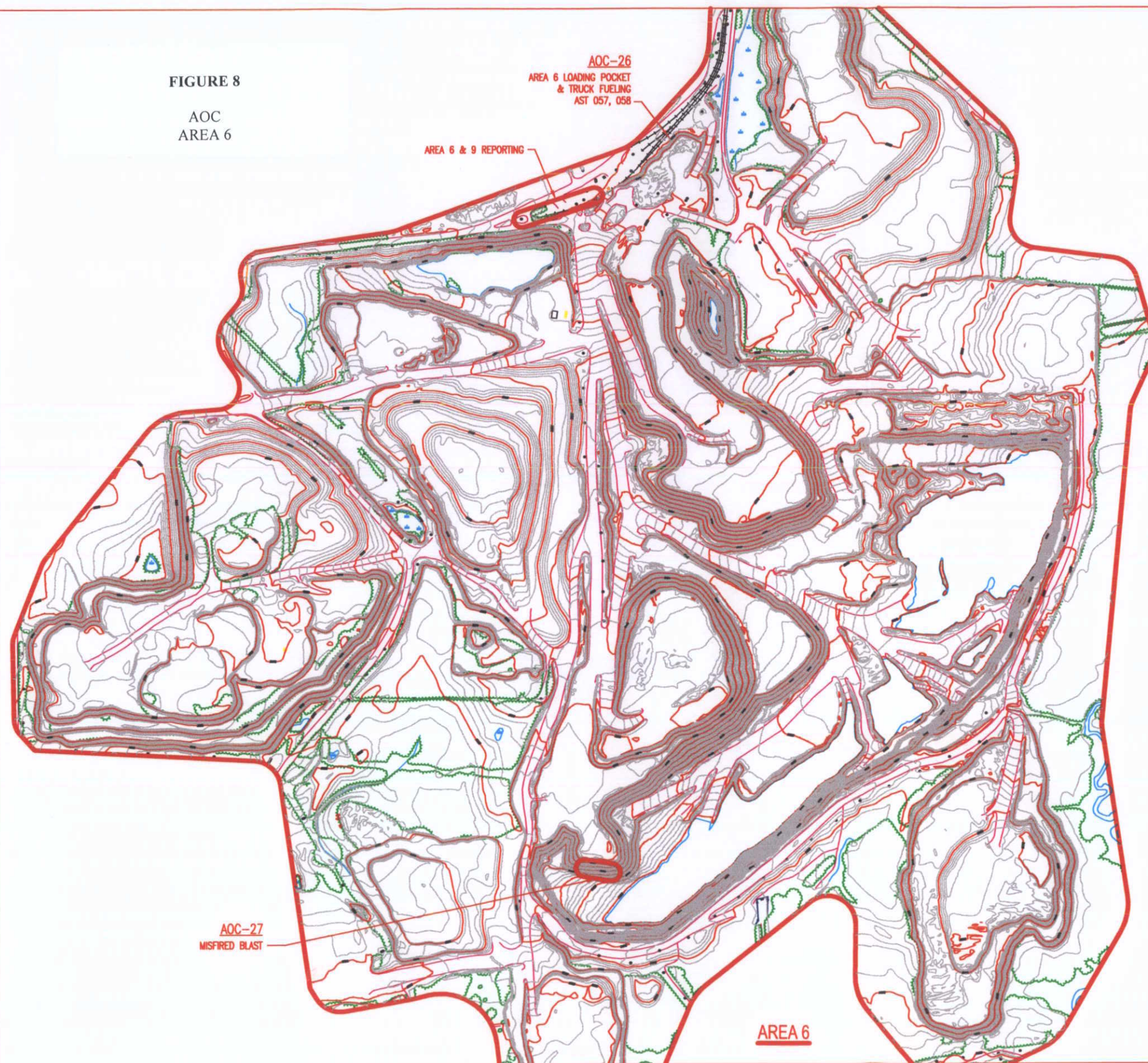
DATE	REVISION DESCRIPTION

PROJECT #: 5798.08
DATE: SEPTEMBER 2002
DWG. FILE: Figure 7
SCALE: 1" = 1000'

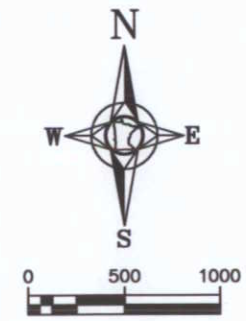
PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE LLC
HOYT LAKES, MINNESOTA
HOYT LAKES FACILITY, AREA 5

FIGURE
7

FIGURE 8
AOC
AREA 6



- LEGEND**
- RAILROAD TRACKS
 - ROAD
 - ROAD UNDER-CONSTRUCTION
 - DRIVEWAY
 - TRAIL
 - SHOULDER
 - DRAIN OR SHORELINE
 - SWAMP
 - FENCE
 - WALL
 - SIDEWALK
 - PIPELINE
 - FOUNDATION OR SLAB
 - WOODS OUTLINE
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - INDEX DEPRESSION CONTOUR
 - INTERMEDIATE DEPRESSION
 - APPROXIMATE CONTOUR
 - UNDER CONSTRUCTION OUTLINE
 - UNIDENTIFIED OBJECT
 - CULVERT
 - END OF CULVERT
 - UTILITY POLE
 - FLAG POLE
 - RAILROAD CROSSING SIGN
 - RADIO, TV TOWERS
 - HORIZONTAL CONTROL POINT
 - VERTICAL CONTROL POINT
 - SWAMP SYMBOL
 - COMMERCIAL SIGN
 - TREE



MARKHURD

4010416

NOTE

HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED.

THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET

TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.

HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.

VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT. GRID SHOWN AT A 1000 FOOT INTERVAL.

AURORA SITE

REVISION DESCRIPTION

PROJECT #: 5798.08
DATE: SEPTEMBER 2002
DWG. FILE: Figure 8
SCALE: 1" = 1000'

PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE LLC
HOYT LAKES, MINNESOTA
HOYT LAKES FACILITY, AREA 6

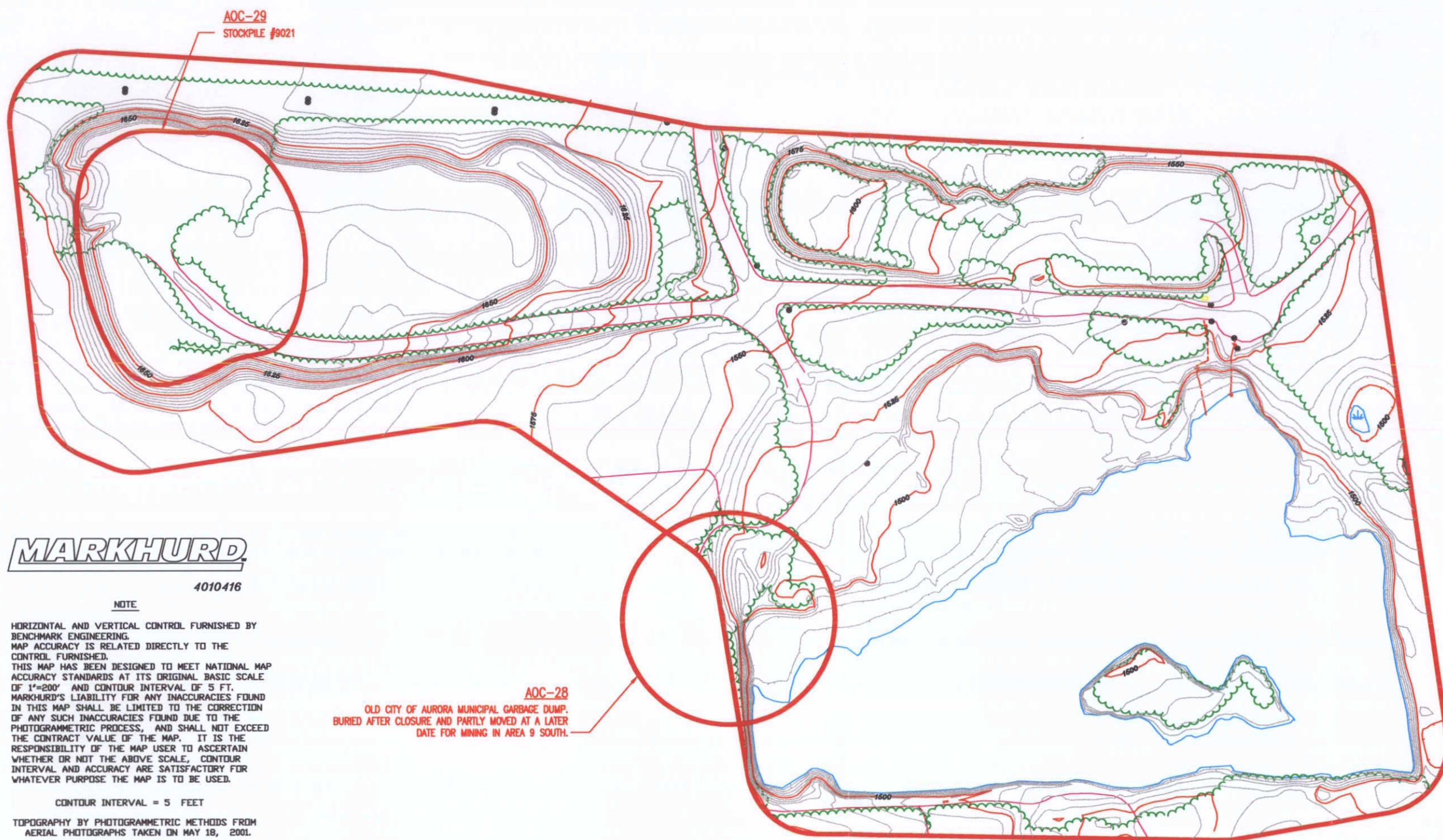
FIGURE 8

315 CHESTNUT STREET
VIRGINIA, MN 55921
218-741-4298

Markhurd & Technical Services
Aurora Site, 1777 Aurora Ave. S.
Minneapolis, MN 55406

I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer or Geologist under MINNESOTA State Law.

Registration # _____
Date: _____



MARKHURD

4010416

NOTE

HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED. THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET

TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.

HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.

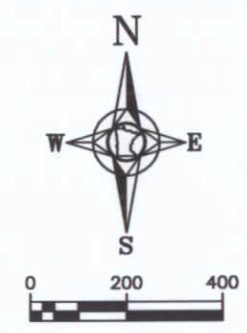
VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT. GRID SHOWN AT A 1000 FOOT INTERVAL.

AURORA SITE

FIGURE 9

AOC
AREA 9S

- LEGEND**
- RAILROAD TRACKS
 - ROAD
 - ROAD UNDER CONSTRUCTION
 - DRIVEWAY
 - TRAIL
 - SHOULDER
 - DRAIN OR SHORELINE
 - SWAMP
 - FENCE
 - WALL
 - SIDEWALK
 - PIPELINE
 - FOUNDATION OR SLAB
 - VOIDS OUTLINE
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - INDEX DEPRESSION CONTOUR
 - INTERMEDIATE DEPRESSION
 - APPROXIMATE CONTOUR
 - UNDER CONSTRUCTION OUTLINE
 - UNIDENTIFIED OBJECT
 - CULVERT
 - END OF CULVERT
 - UTILITY POLE
 - FLAG POLE
 - RAILROAD CROSSING SIGN
 - RAILROAD TV TOWERS
 - HORIZONTAL CONTROL POINT
 - VERTICAL CONTROL POINT
 - SWAMP SYMBOL
 - COMMERCIAL SIGN
 - TREE



I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly registered PROFESSIONAL ENGINEER or SURVEYOR in the State of MINNESOTA.

Signature: _____ Date: _____

REVISION	DESCRIPTION

PROJECT #: 5798.08

DATE: SEPTEMBER 2002

DWG. FILE: Figure 9

SCALE: 1" = 400'

PHASE I ENVIRONMENTAL SITE ASSESSMENT

CLIFFS ERIE LLC

HOYT LAKES, MINNESOTA

HOYT LAKES FACILITY, AREA 9S

FIGURE

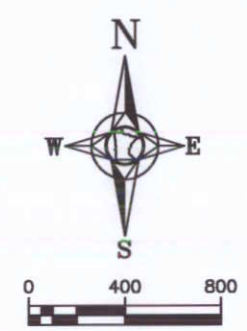
9

OLD AREA 1 WEST
REPORTING SITE

AOC-30
ERIE PRELIMINARY TACONITE PLANT
(1948 - 1957)
T59N, R15W, SW1/4, SE 1/4

FIGURE 10
AOC
AREA 9NW

- LEGEND
- RAILROAD TRACKS
 - ROAD
 - ROAD UNDER-CONSTRUCTION
 - DREVEWAY
 - TRAIL
 - SHOULDER
 - BROAD OR SHORELINE
 - SWAMP
 - FENCE
 - WALL
 - SIDEWALK
 - PIPELINE
 - FOUNDATION OR SLAB
 - WOODS OUTLINE
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - INDEX DEPRESSION CONTOUR
 - INTERMEDIATE DEPRESSION
 - APPROXIMATE CONTOUR
 - UNDER CONSTRUCTION OUTLINE
 - UNIDENTIFIED OBJECT
 - CULVERT
 - END OF CULVERT
 - UTILITY POLE
 - FLAG POLE
 - RAILROAD CROSSING SIGN
 - RADIO, TV TOWERS
 - HORIZONTAL CONTROL POINT
 - VERTICAL CONTROL POINT
 - SWAMP SYMBOL
 - COMMERCIAL SIGN
 - TREE



MARKHURD

4010416

NOTE

HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED. THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET


TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.

HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.
VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT.
GRID SHOWN AT A 1000 FOOT INTERVAL.

AURORA SITE

AOC-31
AREA 9 LOADING POCKET

AREA 9N



Markhurd Engineering
315 CHEVY STREET
VIRGINIA, MN 55972
218/741-0200

I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.

Registration # _____
Date: _____

REVISION	DESCRIPTION

PROJECT #: 5798.08
DATE: SEPTEMBER 2002
DWG. FILE: Figure 10
SCALE: 1" = 800'

PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE LLC
HOYT LAKES, MINNESOTA

HOYT LAKES FACILITY, AREA 9N

FIGURE 10

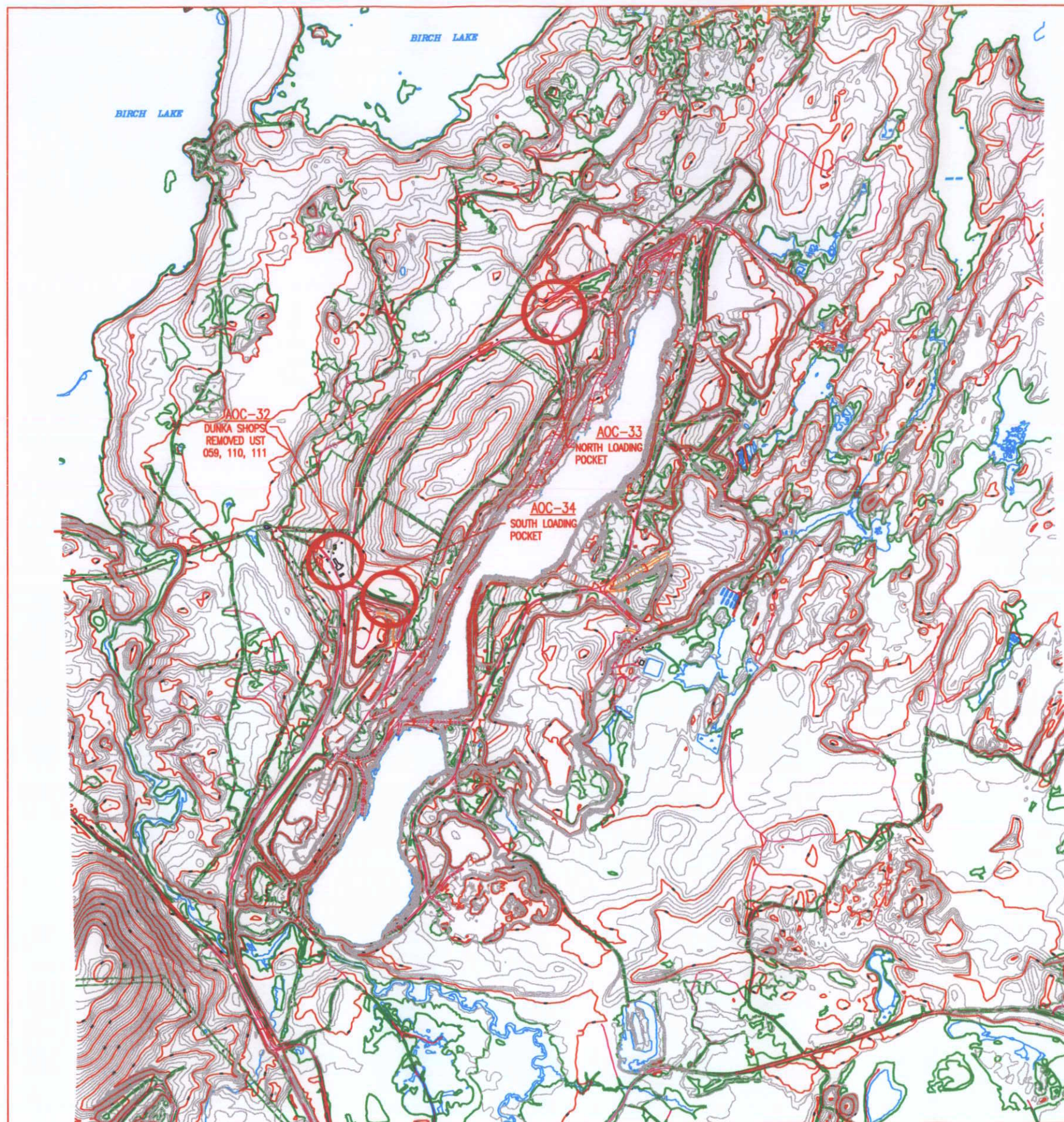
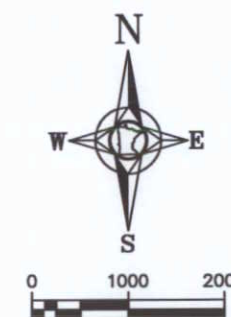


FIGURE 11
AOC
AREA 8 (DUNKA)

AREA 8 (DUNKA)



- LEGEND**
- RAILROAD TRACKS
 - ROAD
 - ROAD UNDER-CONSTRUCTION
 - DRIVEWAY
 - TRAIL
 - SHOULDER
 - DRAIN OR SHOULDER
 - SWAMP
 - FENCE
 - WALL
 - SIDEWALK
 - PIPELINE
 - FOUNDATION OR SLAB
 - WEDGES OUTLINE
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - INDEX DEPRESSION CONTOUR
 - INTERMEDIATE DEPRESSION
 - APPROXIMATE CONTOUR
 - UNDER CONSTRUCTION OUTLINE
 - UNIDENTIFIED OBJECT
 - CULVERT
 - END OF CULVERT
 - UTILITY POLE
 - FLAG POLE
 - RAILROAD CROSSING SIGN
 - RADIO, TV TOWERS
 - HORIZONTAL CONTROL POINT
 - VERTICAL CONTROL POINT
 - SWAMP SYMBOL
 - COMMERCIAL SIGN
 - TREE

MARKHURD

4010416

NOTE

HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED. THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET

TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.

HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.

VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT. GRID SHOWN AT A 1000 FOOT INTERVAL.

BIRCH LAKE



I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly registered PROFESSIONAL ENGINEER or GEOLOGIST under MINNESOTA State Law.

315 CHESTNUT STREET
VIRGINIA, MN 55792
218-741-4390

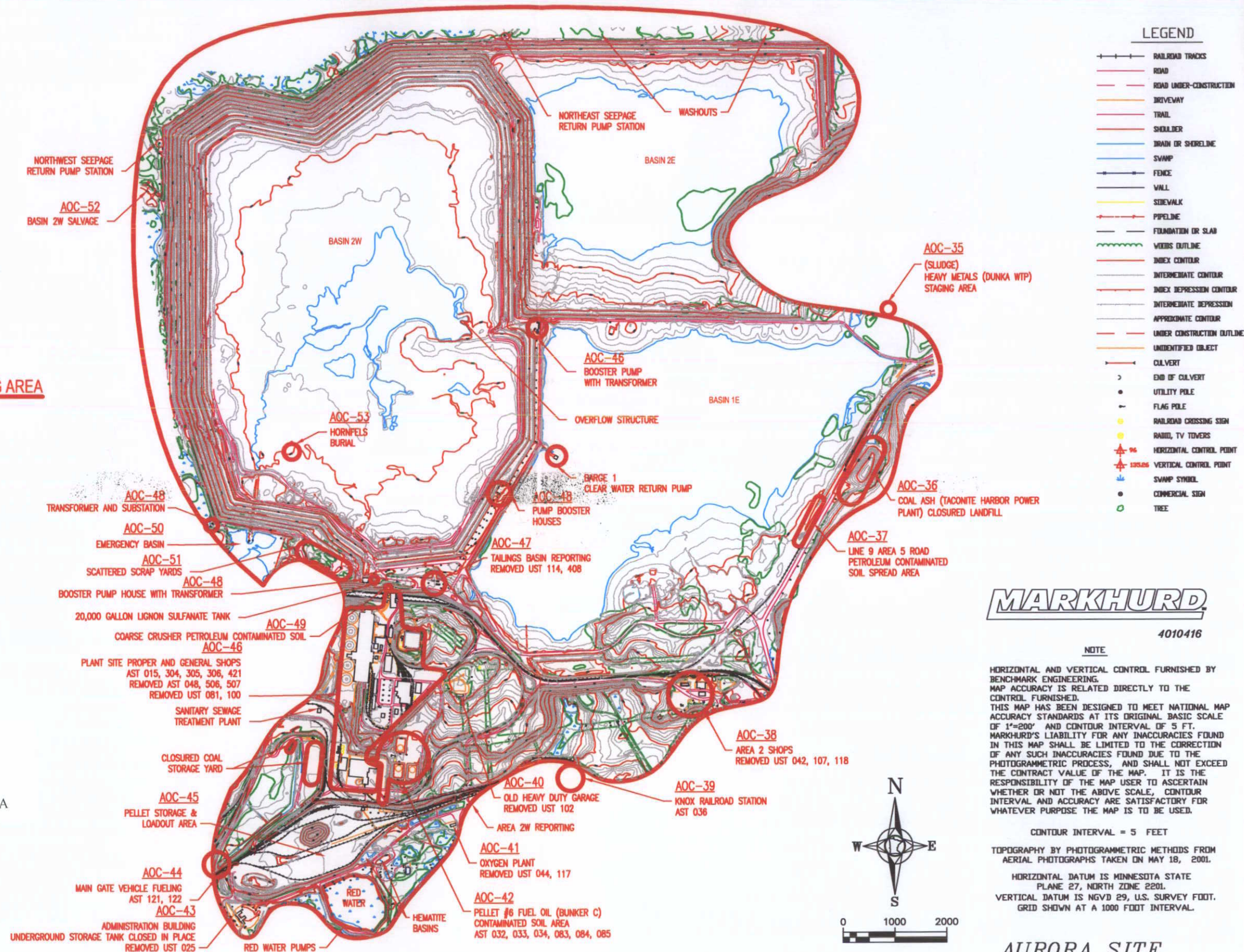
REVISION DESCRIPTION

PROJECT #: 5796.08
DATE: SEPTEMBER 2002
DWG. FILE: Figure 11
SCALE: 1" = 2000'

PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE LLC
HOYT LAKES, MINNESOTA
AREA 8 (DUNKA)

FIGURE
11

FIGURE 12
AOC
PLANT AND PROCESSING AREA



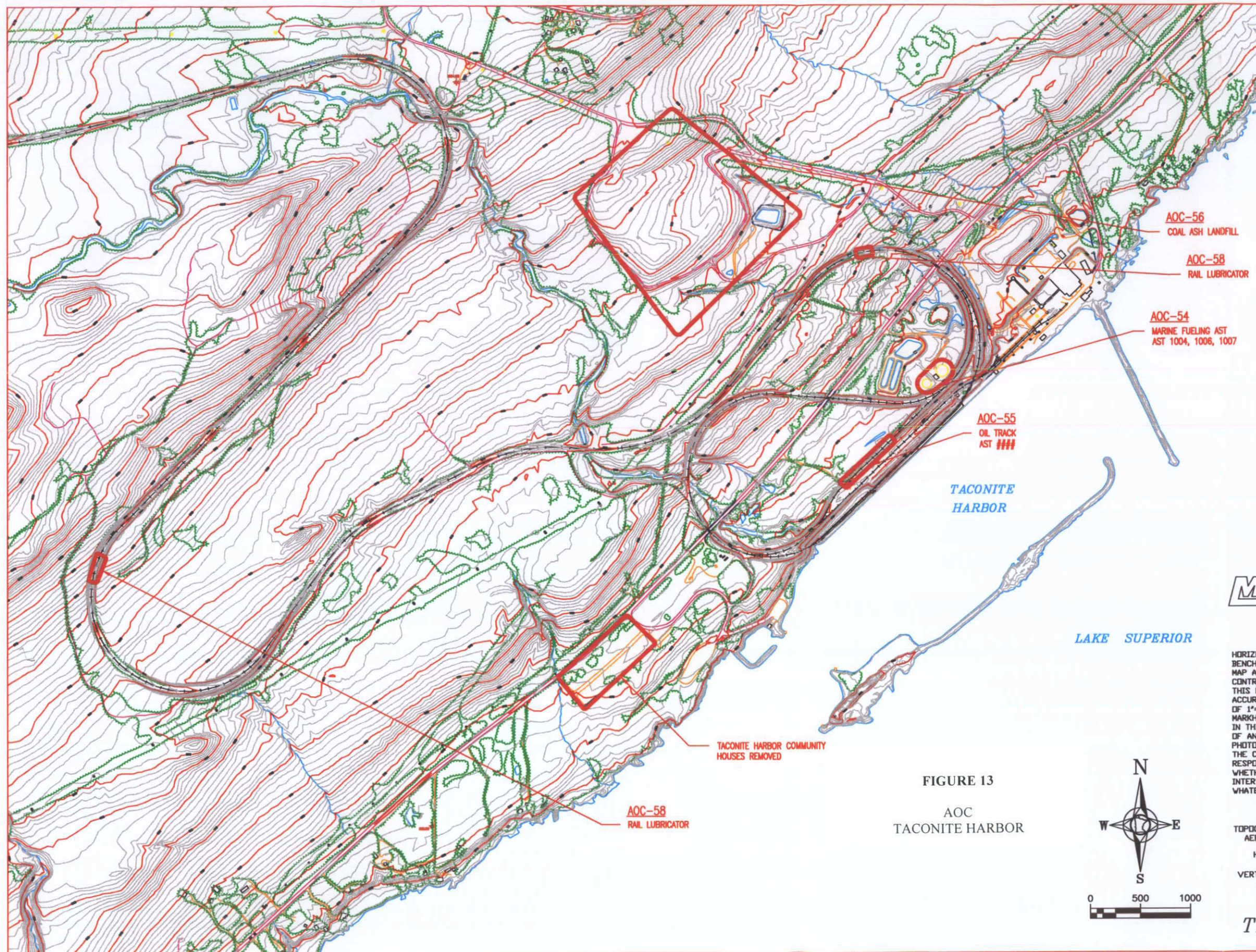


FIGURE 13
AOC
TACONITE HARBOR



- LEGEND**
- RAILROAD TRACKS
 - ROAD
 - ROAD UNDER-CONSTRUCTION
 - DRIVEWAY
 - TRAIL
 - SHOULDER
 - DRAIN OR SHORELINE
 - SWAMP
 - FENCE
 - WALL
 - SIDEWALK
 - PIPELINE
 - FOUNDATION OR SLAB
 - VOIDS OUTLINE
 - INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - INDEX DEPRESSION CONTOUR
 - INTERMEDIATE DEPRESSION
 - APPROXIMATE CONTOUR
 - UNDER CONSTRUCTION OUTLINE
 - UNIDENTIFIED OBJECT
 - CULVERT
 - END OF CULVERT
 - UTILITY POLE
 - FLAG POLE
 - RAILROAD CROSSING SIGN
 - RADIO, TV TOWERS
 - HORIZONTAL CONTROL POINT
 - VERTICAL CONTROL POINT
 - SWAMP SYMBOL
 - COMMERCIAL SIGN
 - TREE

MARKHURD

4010416

NOTE
HORIZONTAL AND VERTICAL CONTROL FURNISHED BY BENCHMARK ENGINEERING. MAP ACCURACY IS RELATED DIRECTLY TO THE CONTROL FURNISHED. THIS MAP HAS BEEN DESIGNED TO MEET NATIONAL MAP ACCURACY STANDARDS AT ITS ORIGINAL BASIC SCALE OF 1"=200' AND CONTOUR INTERVAL OF 5 FT. MARKHURD'S LIABILITY FOR ANY INACCURACIES FOUND IN THIS MAP SHALL BE LIMITED TO THE CORRECTION OF ANY SUCH INACCURACIES FOUND DUE TO THE PHOTOGRAMMETRIC PROCESS, AND SHALL NOT EXCEED THE CONTRACT VALUE OF THE MAP. IT IS THE RESPONSIBILITY OF THE MAP USER TO ASCERTAIN WHETHER OR NOT THE ABOVE SCALE, CONTOUR INTERVAL AND ACCURACY ARE SATISFACTORY FOR WHATEVER PURPOSE THE MAP IS TO BE USED.

CONTOUR INTERVAL = 5 FEET
TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN ON MAY 18, 2001.
HORIZONTAL DATUM IS MINNESOTA STATE PLANE 27, NORTH ZONE 2201.
VERTICAL DATUM IS NGVD 29, U.S. SURVEY FOOT. GRID SHOWN AT A 1000 FOOT INTERVAL.

TACONITE HARBOR



I hereby certify that this plan, specification, drawing or report was prepared by me or under my direct supervision and that I am a duly registered PROFESSIONAL ENGINEER or GEOLOGIST under MINNESOTA State Law.
Date: _____ Registration #: _____

REVISION	DESCRIPTION

PROJECT #: 5796.08
DATE: SEPTEMBER 2002
DWG. FILE: Figure 13
SCALE: 1" = 1000'

PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLIFFS ERIE LLC
HOYT LAKES, MINNESOTA
TACONITE HARBOR FACILITY

FIGURE
13

Site Identification Number Vic # 15860

NOTICE

This file contains one or more of the following items that have not been scanned.
For access to these items, see the original file.

- ☐ audio cassette tape(s)
- ☐ blueprint(s)
- ☐ compact disc(s)
- ☐ diskette(s)
- ☐ map(s)
- ☐ other _____
- ☐ photograph(s)
- ☐ plan sheet(s)
- ☐ slide(s)
- ☐ videotape(s)

APPENDIX B – TABLES

TABLE 1	RECORD OF MATERIAL REMOVED BY AREA
TABLE 2	EXISTING OUTDOOR AST
TABLE 3	INDOOR AST
TABLE 4	REMOVED AST
TABLE 5	REMOVED UST
TABLE 6	WELL AND SEPTIC SYSTEM INVENTORY
TABLE 7	AREAS OF CONCERN

TABLE 1: LTV Steel Mining Co., Material Moved

Year	Mining Area										
	1	2E	2W	2X	3	5S	5N	6	8	9N	9S
1955											
1956											
1957											
1958											
1959											
1960											
1961											
1962											
1963											
1964											
1965											
1966											
1967											
1968	SRT	RT	RT		ST			SRT	SRT	ST	
1969	SRT	ST	ST		RT			SRT	SRT	SRT	
1970	SRT	SRT	SRT		SRT			SRT	SRT	SRT	
1971	SRT	SRT	SRT		RT			SRT	SRT	SRT	
1972	ST	SRT	SRT		RT			SRT	SRT	SRT	
1973	SRT	SRT	SRT		T			SRT	SRT	T	S
1974	SRT	SRT	SRT		T			SRT	SRT	T	SR
1975	SRT	SRT	SRT		T		SR	SRT	SRT	T	SRT
1976	SRT	SRT	SRT				SRT	RT	SRT	T	SRT
1977	RT	SRT	SRT				SRT	RT	SRT	T	SRT
1978	SRT		SRT				SRT		SRT	T	T
1979	SRT		SRT				SRT		SRT	T	SRT
1980	SRT		SRT	SR			SRT		SRT	T	RT
1981	SRT		SRT	SR			SRT		RT	T	RT
1982	T		SRT	SR			SRT		RT		
1983	T						RT		RT	ST	
1984	T		T				RT		RT	SRT	
1985	T						RT		RT	SRT	
1986	T		RT	SR			RT	T	SRT	SRT	
1987	T	ST	SRT	SRT		SRT	RT		RT	RT	T
1988		SRT	SRT	SRT		SRT	SRT	S	RT	RT	RT
1989		RT	SRT	SRT	T	SRT		SRT	RT	RT	RT
1990		SRT	SRT	SRT		SRT		SRT	RT		T
1991		SRT		SRT		SRT		SRT	RT		
1992		SRT		SRT		SRT		SRT	RT		
1993		SRT		SRT		SRT		SRT	RT		
1994		SRT		SRT		RT		SRT	T		
1995		SRT	S	SRT		T		SRT			
1996		SRT	SRT	SRT				SRT			
1997		SRT	SRT	SRT				SRT			
1998		SRT	SRT	SRT				SRT			
1999		RT	SRT	SRT				SRT			
2000		RT	SRT	SRT				SRT			
2001			S	T				T			

Gray shaded area represents no record of data.

S = Stripping

R = Waste Rock

T = Taconite

Table 2: Existing Outdoor AST

Tank ID	Location	Contents	Capacity (gal)	Containment Volume (gal)	Containment type	Comments
015	E. Side of concentrator	#1,#2 fuel oil	12,000	54,299	Concrete with 30 mil poly overlay	
032	Pellet plant tank farm	#2, #6 fuel oil	3,384,000	3,596,118	Bermed clay basin	Open leak # 12254
033	Pellet plant tank farm	#6 fuel oil	3,384,000	3,787,760	Bermed clay basin	Open leak # 12254
034	Pellet plant tank farm	#6 fuel oil	3,384,000	3,474,774	Bermed clay basin	Open leak # 12254
036	Knox Mainline Fueling Station	#1, #2 fuel oil	20,000	30,185	Concrete with 30 mil poly overlay	
057	Area 6 truck fueling	#1,#2 fuel oil	10,000	19,600	Poly liner	
058	Area 6 truck fueling	#1,#2 fuel oil	10,000	19,600	Poly liner	
080	Area 1 Panel Yard in-pit locomotive fueling	#1,#2 fuel oil	20,000	32,668	Poly liner	
083	Pellet Plant Tank Farm	#1,#2 fuel oil	20,000	83,800	Spray-on poly liner	Open leak # 12254
084	Pellet Plant Tank Farm	#1,#2 fuel oil	20,000	83,800	Spray-on poly liner	Open leak # 12254
085	Pellet Plant Tank Farm	#1,#2 fuel oil	20,000	83,800	Spray-on poly liner	Open leak # 12254
092	Area 2 in-pit locomotive Fueling	#1,#2 fuel oil	20,000	22,281	Poly liner	
121	Main gate light vehicle fueling	gas	6,000	19,738	Poly liner	
122	Main gate light vehicle fueling	gas	6,000	19,738	Poly liner	
304	E. side of concentrator	mineral oil	12,000	54,299	Concrete with 30 mil poly overlay	
305	E. side of concentrator	mineral oil	12,000	54,299	Concrete with 30 mil poly overlay	
306	E. side of concentrator	mineral oil	12,000	54,299	Concrete with 30 mil poly overlay	

Table 2: Existing Outdoor AST (continued).

Tank ID	Location	Contents	Capacity (gal)	Containment Volume (gal)	Containment type	Comments
358	N. side of Area 1 shops	used antifreeze			Double wall	
420	N. side of Area 1 shops	used antifreeze			Double wall	
421	E. side of concentrator	alcohol	10,000			
500	Area 2 WX Truck Fueling	#1,#2 fuel oil	20,000	22,418	Poly liner	
501	Area 2 Fueling	#1,#2 fuel oil	20,000	25,103	Poly liner	
505	Area 2 WX Truck Fueling	#1,#2 fuel oil	20,000	22,418	Poly liner	
1004	Koch Marine Fueling	#4-#6 fuel oil	3,381,000		Bermed clay basin	Out of service and cleaned in late 1960s.
1006	Koch Marine Fueling	#1-#2 fuel oil	1,650,000		Bermed clay basin	Out of service and cleaned in late 1960s.
125	Murphy City	gas	4,000		Double wall	Not accounted on other inventories
098	Murphy City	#1, #2 fuel oil	4,000		Double wall	Not accounted on other inventories
##	Taconite harbor oil track	#2 fuel	4,000			Not accounted on other inventories

Not known or not assigned.

Table 3: Indoor AST

Tank ID	Location	Contents	Capacity	Comments
##	General Shops	lube oil		
##	General Shops	used oil		
##	General Shops	used oil		
##	Area 2 Locomotive Shop	lube oil		
##	Area 2 Locomotive Shop	used oil		
##	Rebuild Shop	motor oil		
##	Rebuild Shop	used oil		
##	Rebuild Shop	motor oil		
##	Rebuild Shop	antifreeze		
##	Knox	lube oil		
##	Coarse Crusher	lube oil		
##	Coarse Crusher	lube oil		
##	Coarse Crusher	lube oil		
##	Coarse Crusher	return lube oil		
##	Lube Storage Building	lube oil		
##	Lube Storage Building	lube oil		
##	Fine Crusher	lube oil		
##	Fine Crusher	lube oil		
##	Fine Crusher	lube oil		
##	Area 1 Shop	50W hydraulic oil		
##	Area 1 Shop	80W hydraulic oil		
316	Area 1 Shop	10W hydraulic oil		
318	Area 1 Shop	40 W.		
317	Area 1 Shop	motor oil		
##	Area 1 Shop	lube oil		
400	Area 1 Shop	antifreeze		
##	Electrical Shop	varnish		
300	Pellet Plant Lube Room	lube oil		
301	Pellet Plant Lube Room	lube oil		

Table 3: Indoor AST (continued).

Tank ID	Location	Contents	Capacity	Comments
302	Pellet Plant Lube Room	lube oil		
303	Pellet Plant Lube Room	lube oil		
857	Pellet Plant Lube Room	grease		
##	Pellet Plant	soap		
1005	Dunka Shops	gas	500	Removed 10/14/94
1110	Dunka Shops	gas	4,000	Removed, 1994
1329	Dunka Shops	motor oil	2,000	Removed, 1994
1330	Dunka Shops	motor oil	1,500	Removed, 1994
1404	Dunka Shops	antifreeze	2,000	Removed, 1994
##	Pellet Plant	soap		

Not known or not assigned.

Table 4: removed AST

Tank ID	Location	Contents	Capacity (gal)	Date removed	Comments
046	Area 1 Shops Tank Farm	#2 fuel oil	19,000	October, 1990	
047	Area 1 Shops Tank Farm	#2 fuel oil	19,000	October, 1990	
048	Area 1 Shops Tank Farm	#2 fuel oil	19,000	October, 1990	
049	Area 1 Shops Tank Farm	#2 fuel oil	19,000	October, 1990	
408	SW of Tailings basin reporting	lignon sulfonate	20,000		Empty, in place
506	Heating plant	fuel oil	500		Double walled, removed and sold
507	Pellet plant G&H Section	fuel oil	500		Double walled, removed and sold
##	W. Side of coarse crusher	used oil		June 2000	
##	NE corner of fine crusher	lube oil		June 2000	
##	NW corner of fine crusher	antifreeze		June 2000	
097	Colby Lake Pumping Station	#2 fuel oil	1000	Approx. 1970	AST was removed, replaced with LP
1005 (111)	Dunka Shops	gas	500	10/14/94	
1043 (060)	Dunka North Loading Pocket	#2 fuel oil	10,000	1995	
1059	Dunka Shops	#2 fuel oil	17,000	Approx. 1994	
1098 (073)	Murphy City	#2 fuel oil	1,000	10/31/88	
1110 (110)	Dunka Shops	gas	4,000	10/14/94	
1125 (113)	Murphy City	gas	1,000	10/31/88	
1409	Dunka Shops	lignin sulfonate	20,000	Approx. 1994	

Not known or not assigned.

(###) Refer to CE record identifications compared to the four digit identification in AST Permit.

TABLE 5: Removed UST

Tank ID	Location	Contents	Capacity (gal)	Date removed	Comments
025	Old admin. building	#2 fuel oil	6,000	7/25/89	
042	Area 2 shops	#2 fuel oil	20,000	7/19/89	
044	Linde oxygen plant	#2 fuel oil	1,000	7/20/89	
045	Area 1 shops	#2 fuel oil	20,000	7/21/89	Heating oil
059	Dunka shops	#2 fuel oil	20,000	10/13/94	
062	Diversion works	#2 fuel oil	1,000	9/15/88	
069	Taconite Harbor	#2 fuel oil	1,000	11/3/88	
070	Taconite Harbor	#2 fuel oil	1,500	11/3/88	
073	Murphy City	#2 fuel oil	2,000	10/31/88	
081	Rebuild garage	#2 fuel oil	200	8/1/89	
086	Tailings basin reporting	#2 fuel oil	10,000	7/29/93	
100	Agglomerator building	gas	1,000	9/4/92	
109	Area 1 shops	gas	10,000	9/4/92	Small Fleet
110	Dunka shops	gas	4,000	10/14/94	
111	Dunka shops	gas	500	10/13/94	
112	Taconite Harbor	gas	1,000	10/17/89	
113	Murphy City	gas	1,000	10/31/88	
114	Tailings Basin Reporting	gas	10,000	7/29/93	
117	Linde Oxygen plant	gas	1,000	5/22/90	
102	Old heavy Duty Garage	gas	2,000	9/30/88	
107	Area 2 Shops	gas	10,000	10/4/88	
118	Area 2 Shops	gas	8,800	10/6/88	
001	Administration building	#2 fuel oil	10,000	10/22/90	Abandoned in -place

Not known or not assigned.

TABLE 6: Well and Septic Inventory

Wells

1. Three (3) Original Plant Wells
 - A. Two (2) South of Old Oxygen Plant
 - B. One (1) South of Area 1 Road & East of 2WX Rail Fill
2. One (1) @ Area 5 Reporting
3. One (1) @ Area 2WX Reporting
4. One (1) @ Dunka – Closed
5. One (1) @ Murphy City Reporting
6. Three (3) @ Taconite Harbor
 - A. Loading Dock (Altar Near Elevator Door)\
 - B. West of Oil Track (Near Highway #61) – Closed
7. One (1) @ Administration Building (Installed August, 2001 – Plant Closure)

Septic Tank / Drainfields

1. New Adm. Building (Septic Tank and Lift Station including force main to mound system installed in 2001.)
2. Area 1 Shops
3. Area 2 Shops
4. Dunka Shops
5. Tailings Basin Reporting
6. Booster Pump House
7. Area 5 Reporting (Not Active)
8. Old Area 1 Reporting (Not Active)
9. Area 6 Reporting
10. Area 2W Ext. Reporting
11. Area 2W Reporting
12. Knox Station
13. Old Oxygen Plant (Not Active)
14. Murphy City Reporting
15. Taconite Harbor Loading Dock

Note: Two (2) wells @ Taconite Harbor Village & one (1) well @ area 1 shops were also closed on earlier dates ~ inf. on file.

TABLE 7: Areas of Potential Concern.

AOC	Description	Practices	Preliminary COC	Comments
HOYT LAKES AREA 1 (reference Figure 3)				
1	Area 1 Shops and Reporting	Fueling Equipment rebuild and repair Steam Cleaning Electrical Shop	DRO, GRO VOC, RCRA SVOC	LUST Leak #6421 closed 12/16/98 Soil removed and land applied at line 9 Area 5
2	Area 1W Petroleum Contaminated Soil	Land application of petroleum contaminated soil from where various spill sites including Taconite Harbor railroad accident.	DRO, GRO	Permitted land application site, monitoring data exists.
3	Sludge Site	Land application of municipal WWTP sludge from Aurora and Hoyt Lakes	RCRA	Discontinued sludge application in 1988
4	1004 Storage Area	Salvage of equipment General Materials storage.	DRO, GRO, VOC, PAH, RCRA Metals	Adjacent ravine contains industrial and demolition waste.
5	Roofing Disposal	Demolition waste disposal	PAH, RCRA	Material is buried with waste rock
6	Oily Waste Disposal Area	Oily waste from oil/water separator of the WWTP disposal	DRO, GRO, VOC, PAH, RCRA	Exact location is difficult to determine
7	Bull Gear Disposal	One time disposal of heavy lubricant	PAH, Pb	Disposal is only documented through interview information and exact location is difficult to determine.
8	Private Landfill	Industrial Waste disposal	VOC RCRA	Closed, permitted landfill. SW-17
9	RR Panel Yard	RR siding area Fabrication of rail panels Disposal of railroad ties Locomotive fueling	DRO, VOC, RCRA, PAH	Rail road ties disposal areas also contain scrap metal and other demolition waste.
10	Airport	Equipment salvage & tear-down area Materials storage	DRO, GRO, VOC, RCRA	The term "airport" implies that this area is where unserviceable equipment lands. Most has been removed recently by scrap dealers.

TABLE 7: Areas of Potential Concern (continued).

AOC	Description	Practices	Preliminary COC	Comments
11	Stoker Coal Ash Disposal	Coal ash industrial waste disposal	B, Sr,	Cover on the disposal area is marginal
12	Mill Rejects Area	Industrial and demolition waste disposal	DRO, PAH, RCRA	Scrap originates from projects in the concentrator building.
Hoyt Lakes Area 2 2E, 3 (reference Figure 4)				
13	2001 Storage Area	Equipment salvage Materials storage Transformer storage	DRO, GRO, VOC, PAH, PCB, RCRA Metals	Much of the equipment and materials have been removed by scrap dealers.
14	Large Equipment Paint Area	Sandblasting and painting	RCRA, VOC	Site contains residual blasting sands
15	RR Storage Area	Siding area and general storage of railroad equipment	PAH, DRO	
16	Area 2 Vibratory Loading Pocket	Lube station	DRO, PAH, Pb	
17	Area 2 Truck Fueling	In-mine truck fueling	DRO/BTEX	
18	Area 2 Superpocket	Hydraulic fluids for the Superpocket	DRO	
Hoyt Lakes, Area 2WX (reference Figure 6)				
19	Area 2WX Reporting	Fuel oil tank, well and septic General materials storage		Some soil staining evident in storage area.
20	Shovel Salvage	Shovel Salvage area	DRO, GRO, PAH, RCRA Metals	
21	Area 2WX Truck Fueling	In-mine truck fueling	DRO,BTEX	
22	2WX Vibratory Loading Pocket	Lube station	DRO, PAH, Pb	
23	2WX Superpocket	Hydraulic fluids for the Superpocket and truck fueling	DRO	
Hoyt Lakes Area 5 (reference Figure 7)				
24	Area 5 Reporting	General materials storage adjacent to the reporting area	DRO, VOC, RCRA	

TABLE 7: Areas of Potential Concern (continued).

AOC	Description	Practices	Preliminary COC	Comments
25	Area 5 Loading Pocket and Storage	Materials storage, salvaging operations	DRO, VOC, RCRA	
Hoyt Lakes, Area 6, 9S and 9NW (reference Figure 8,9,10)				
26	Area 6 Vibratory Loading Pocket	Lube station Truck fueling	DRO, VOC, PAH	
27	Area 6 Misfired Blast	Blasting	DRO	Location is difficult to determine
28	Area 9S Former Aurora Dump	Uncontrolled municipal dump for the city of Aurora	VOC, SVOC, RCRA	Dump operated up to about 1970. Most was removed during overburden stripping.
29	Stockpile #9021	Overburden stockpile with Aurora dump.	VOC, PAH, Metals	
30	Pre-Tac	Full scale preliminary taconite plant	DRO, GRO, VOC, RCRA, PAH, PCB	Additional information is required for location of specific buildings and infrastructure.
31	Area 9 N Vibratory Loading Pocket	Lube station	DRO, PAH, Pb	Small areas of soil staining
Area 8 (Dunka) (reference Figure 11)				
32	Dunka Shops and Reporting	General shops and fueling		
33	North Loading Pocket	Truck fueling		
34	South Loading Pocket	Truck fueling		
Hoyt Lakes Processing and shipping (reference Figure 12)				
35	Dunka WTP Sludge	Stockpiling area for WTP sludge	RCRA Metals	The sludge was the result of the active waste water metals treatment plant. The plant was on-line March of 1992. Currently the water treatment is accomplished with wetlands treatment.
36	Coal Ash Landfill	Coal ash landfiling		Closed landfill with monthly cover inspections.
37	Line 9 Area 5 Petroleum Contaminated Soil	Petroleum contaminated soil landfarm	DRO	Soil was the result cleanup at Area 1 shops and Knox Station.

TABLE 7: Areas of Potential Concern (continued).

AOC	Description	Practices	Preliminary COC	Comments
38	Area 2 Shops	Fueling Equipment rebuild and repair Paint Shop Carpenter Shop	DRO, GRO, VOC, RCRA SVOC	Closed Leak # 6423
39	Knox RR Fueling Station	Fueling mainline locomotives	DRO, VOC	Active Leak # 6499
40	Heavy Duty Garage	Equipment maintenance	DRO, GRO, VOC, PAH	This facility has been used only for cold storage since the 1960s
41	Oxygen Plant	Purify oxygen from ambient air	DRO, PAH, PCB	Large Compressors
42	Bunker C Tank Farm	Large AST storage of #4 to #6 fuel oil	DRO	Reported spill in the 1990s. Active Leak # 12254
43	Administration Building	heating oil tank	DRO, BTEX	Tank was closed in place.
44	Main gate Vehicle Fueling Area	Two 6000 gallon AST	GRO/DRO/VOC	This is the one near the Guard Gate
45	Pellet Storage Area & Loadout	RR sidings	DRO, PAH	The portion of this large area that is of concern is the rail line on the north side of the storage area where soil staining is apparent.
46	Plant site proper and General Shops	Crushing, concentrating, pelletizing and general maintenance facilities.	DRO, GRO, VOC, PAH, PCB, RCRA	
47	Tailings Basin Reporting	Lube station Fueling area		
48	Transformers	Transformers associated with pumps located within the Tailings Basin	DRO, PCB	Various locations within the tailings basin.
49	Coarse Crusher Petroleum Contaminated Soil Stockpile	Cleaning waste from the Coarse Crusher building.	DRO, Pb	The material was shipped offsite for treatment in July, 2000.
50	Emergency Basin	Drain Outfall for storm water, and process waste water for the plant site.	DRO, VOC, PAH, RCRA	A preliminary workplan has been submitted to the MPCA.

TABLE 7: Areas of Potential Concern (continued).

AOC	Description	Practices	Preliminary COC	Comments
51	Salvage and Scrap Areas	Storage and salvaging various equipment. These are small areas scattered on the southwest side of the tailings basin	DRO, PAH, PCB, RCRA Metals	
52	Cell 2W Salvage Area	Storage of materials and equipment	DRO, PAH, Pb	Storage of Coherex (petroleum based dust suppressant)
53	Hornfels	Disposal of sulfide waste rock	RCRA, pH	Currently monitoring wells are installed and monitored as part of NPDES permit
Taconite Harbor (reference Figure 13)				
54	Marine Fueling ASTs	Fueling ore boats	DRO, PAH	Active Leak # 12252
55	Oil Track	Off loading from rail cars to Marine Fueling Facility	DRO, PAH	
56	Coal Ash Landfill		B, Sr	Permitted coal ash landfill with current monitoring system.
Rail Corridor and Murphy City (reference Figure 13,17)				
57	Murphy City	Light locomotive maintenance, light vehicle fueling.	DRO, GRO, VOC, RCRA, PAH	Closed leak site #6432
58	Rail Lubricators	Applies lube grease to the inside of rail lines at curves	PAH, Pb	Build up of lubricant on ballast. Two lubricators near Taconit Harbor, one near mile post 55.
Miscellaneous				
59	Colby Lake Pumping Station	Heating oil AST Transformer	DRO, BTEX	Tank was removed in 1970s and replaced with LP.

AOC Area of Concern
 COC Contaminant of Concern
 DRO Diesel Range Organics
 GRO Gasoline Range Organics
 VOC Volatile Organic Compounds

PCB Polychlorinated Biphenyls
 RCRA Resource Conservation and Recovery Act, 8 priority metals
 PAH Polyaromatic Hydrocarbons
 SVOC Semi volatile Organic Compounds

APPENDIX C – EDR SEARCH, HOYT LAKES AREA



The EDR Area Study Report

**Study Area
Cliffs-Erie LLC Hoyt Lakes
Hoyt Lakes, MN 55750**

June 17, 2002

Inquiry number 799521.1s

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR).

TARGET PROPERTY INFORMATION

ADDRESS

CLIFFS-ERIE LLC HOYT LAKES
HOYT LAKES, MN 55750

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL ASTM STANDARD

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP.....	CERCLIS No Further Remedial Action Planned
CORRACTS.....	Corrective Action Report
RCRIS-TSD.....	Resource Conservation and Recovery Information System
RCRIS-LQG.....	Resource Conservation and Recovery Information System
RCRIS-SQG.....	Resource Conservation and Recovery Information System
ERNS.....	Emergency Response Notification System

STATE ASTM STANDARD

SHWS.....	Superfund Permanent List of Priorities
MN VIC.....	Voluntary Investigation and Cleanup Program
SWF/LF.....	Permitted Solid Waste Disposal Facilities
LUST.....	Leak Sites
UST.....	Underground Storage Tank Database

FEDERAL ASTM SUPPLEMENTAL

CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
Delisted NPL.....	National Priority List Deletions
FINDS.....	Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS.....	Hazardous Materials Information Reporting System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
NPL Liens.....	Federal Superfund Liens
PADS.....	PCB Activity Database System
RAATS.....	RCRA Administrative Action Tracking System
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST.....	Aboveground Storage Tanks
----------	---------------------------

EXECUTIVE SUMMARY

MN Spills.....	Spills Database
MN HWS Permit.....	Active TSD Facilities
MN Deleted SHWS.....	Permanent List of Priority Deletions
MN LCP.....	Closed Landfills Priority List
MN LS.....	List of Sites
MN Enforcement.....	Generators Associated with Enforcement Logs
BULK.....	Bulk Facilities Database
MN AGSPILLS.....	Department of Agriculture Spills

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>FEDERAL ASTM STANDARD</u>	
NPL	0
Proposed NPL	0
CERCLIS	0
CERC-NFRAP	0
CORRACTS	0
RCRIS-TSD	0
RCRIS Lg. Quan. Gen.	0
RCRIS Sm. Quan. Gen.	0
ERNS	0
<u>STATE ASTM STANDARD</u>	
State Haz. Waste	0
MN VIC	0
State Landfill	0
LUST	0
UST	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>	
CONSENT	0
ROD	0
Delisted NPL	0
FINDS	0
HMIRS	0
MLTS	0
MINES	0
NPL Liens	0
PADS	0
RAATS	0
TRIS	0
TSCA	0
FTTS	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>	
AST	0
MN Spills	0
MN HWS Permit	0
MN Deleted SHWS	0
MN LCP	0
MN LS	0
MN Enforcement	0
BULK	0
MN AGSPILLS	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>	
Coal Gas	0

MAP FINDINGS SUMMARY

Database

Total
Plotted

* Sites may be listed in more than one database

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

NO SITES FOUND

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AURORA	1001117944	HOLIDAY STATIONSTORE NO 184	5495 HWY 100	55705	RCRIS-SQG, FINDS
AURORA	U000274773	HOLIDAY STATIONSTORE #184	HWY 100 & 5TH AVE	55705	UST
AURORA	U000274777	MONSANTO PLANT (FORMER)	HWY 110	55705	UST
AURORA	1004732116	HUDSON TRANSFER STATION	HWY 135 FIRE 5910 1 1/2 MI N	55705	RCRIS-SQG
AURORA	1004733924	CURTISS WHITEGOODS PROCESSING INC	5910 HWY 135 N	55705	RCRIS-SQG
AURORA	S102726535	HUDSON SW TRANSFER STATION	5910 HIGHWAY 135 NORTH PO BOX	55705	SWF/LF
AURORA	U000274782	TED BURTON	ROUTE 2 - PO BOX 65AA	55705	UST
AURORA	S104168518	FORMERLY VIKING EXPLOSIVES	5796 E 3RD AVE N	55705	LUST
AURORA	S104168519	BERNIES AUTO SERVICE	321 W 3RD ST	55705	LUST
AURORA	S104168547	VIKING EXPLOSIVES (FORMERLY)	5796 E 3RD AVE N	55705	LUST
AURORA	1004736285	JOHNSONS AUTOMATIC	3622 HWY 99	55705	RCRIS-SQG
AURORA	S103854724	HUDSON SOLID WASTE TRANSFER ST	APPROXIMATELY 1 MILE N OF THE HWY 100 /	55705	MN LS
AURORA	S102263136	HUDSON DEMOLITION LANDFILL	PO BOX 160	55705	SWF/LF
AURORA	S103283650	HUDSON SANITARY LF	PO BOX 160	55705	SWF/LF
AURORA	S105244992	HNATKO PROPERTY	SW CORNER OF 1ST W / 3RD AVE N	55705	LUST
AURORA	S100412400	FORMER AURORA AMOCO	216-218 MAIN ST	55705	LUST
AURORA	S103315017	ERIE MINING DUMP - 2	2 1/2 MI NW OF INTER OF CSAH 110 /	55705	MN LS
			CORD		
AURORA	S103315186	HUDSON DEMOLITION LANDFILL	1 MILE N OF THE HWY 135 / HWY 100	55705	MN LS
AURORA	1000376858	MONSANTO CO	OLD ST RTE 135 1M E OOF AURORA	55705	RCRIS-SQG, FINDS
AURORA	S103909814	FORMER TACONITE OIL INC BULK F	RAILROAD AVE	55705	LUST
AURORA	1004736503	NRI ELECTRONICS AND CABLES INC	SECOND ST E AND FORESTRY RD	55705	RCRIS-SQG
AURORA	1000980118	FORMER AMOCO SVC STATION	216 THRU 218 MAIN ST	55705	RCRIS-SQG, FINDS
BABBITT	S103315018	ERIE MINING DUMP - 1	*4 1/2 MI E OF INTER OF CSAH70 /	55706	MN LS
			CORD623		
BABBITT	S101648602	URBAN	HWY 21	55706	LUST, MN Spills
BABBITT	U000728122	NORTHERN LIGHTS LODGE	9089 HIGHWAY 21 N	55706	LUST, UST, AST
BABBITT	1004733950	CURTISS WHITEGOODS PROCESSING INC	9384 HWY 21N	55706	RCRIS-SQG
BABBITT	1004732243	ROGERS DIAGNOSTIC CTR	2667 HWY 70	55706	RCRIS-SQG
BABBITT	S100258698		BABBITT	55706	LUST, MN Spills
BABBITT	S100055621	BABBITT TIRE CYCLE	COUNTY ROAD 623	55706	LUST
BABBITT	S102659238	NORTHWOODS SANITARY LANDFILL	OFF OF COUNTY ROAD 21 NORTHWEST OF BE	55706	MN LS
BABBITT	S105271663	NORTHSHORE MINING CO - SLUDGE	1/2 MI S ON CO HWY 70, FROM CO HWY 623	55706	MN LS
BABBITT	1000433117	BENVILLE SERVICE INC	STAR RTE HWY 21	55706	RCRIS-SQG, FINDS, LUST
BABBITT	1000336136	UNION CARBIDE CORP	TOMAHAWK TRAIL 7 MI E OF TOWN	55706	RCRIS-SQG, FINDS
BIWABIK	S105271664	UNAUTHORIZED DUMP - 2	~ 3/4 MI ON CO HWY 64 S FROM W PIKE RD	55706	MN LS
BIWABIK	U003661767	GIANTS RIDGE GOLF & SKI RESORT	COUNTY RD 135	55732	UST
BIWABIK	S104168714	GIANTS RIDGE GOLF & SKI RESORT	COUNTY RD 138	55732	LUST
EMBARRASS	U000882058	HERUONEN ARVO	ROUTE 2 - PO BOX 57	55732	UST
EMBARRASS	1000888350	EMBARRASS PUBLIC SCHOOL BLDG	HWY 21	55732	RCRIS-SQG, FINDS
EMBARRASS	U000886822	DIVISION 4 - EMBARRASS	CO HWY 21	55732	UST
HOYT LAKES	1000888750	NORWEST BANK HOYT LAKES NA	HWY 10 SHOPPING CTR	55750	RCRIS-SQG, FINDS
HOYT LAKES	S102659208	HOYT LAKES DEMOLITION LANDFILL	APPROX. 2 MILES N ON THE HWY 110 / CO	55750	MN LS
			RD		

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HOYT LAKES	S100056049		PO BOX 847	55750	LUST, MN Spills, MN LS
HOYT LAKES	1000132659	LTV STEEL MINING COMPANY	ST LOUIS COUNTY RD 666	55750	FINDS, MN Spills, RCRIS-LQG, MLTS
HOYT LAKES	U000889189	DULUTH MISSABE & IRON RANGE HQ	MESABA	55750	UST
HOYT LAKES	1000888593	USX CORP MCKINLEY MINE	OFF HWY 135	55750	RCRIS-SQG, FINDS

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

HOLIDAY STATIONSTORE NO 184
5495 HWY 100
AURORA, MN 55705

RCRIS-SQG **1001117944**
FINDS **MNR000024174**

RCRIS:

Owner: HOLIDAY COMPANIES
(612) 830-8891
EPA ID: MNR000024174
Contact: KEITH YOKUM
(612) 830-8891
Classification: Small Quantity Generator
Used Oil Recyc: No
TSD Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

HOLIDAY STATIONSTORE #184
HWY 100 & 5TH AVE
AURORA, MN 55705

UST **U000274773**
N/A

UST:

Facility ID:	5214	Telephone:	2182299380
Tank ID:	001	Capacity:	10000
Tank Number:	001	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	REMOVED	Product:	GASOLINE
Install Date:	01-aug-1972	Dispense Type:	SUBMERSIBLE
Remove Date:	04-jun-1996	Spill Containment:	Not reported
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	SERVICE STATION/BULK
Closed Date:	Not reported	Pipe Material:	GALVANIZED STEEL
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	No	Pipe Cathodic:	No
Tank Remedial:	Daily Stick		
Pipe Remedial:	Not reported		
Owner:	HOLIDAY STATIONSTORE INC		
Owner Address:	4567 W 80TH ST MINNEAPOLIS, MN 55440		

Facility ID:	5214	Telephone:	2182299380
Tank ID:	002	Capacity:	12000
Tank Number:	002	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	REMOVED	Product:	GASOLINE
Install Date:	01-aug-1972	Dispense Type:	SUBMERSIBLE
Remove Date:	10-jun-1996	Spill Containment:	Not reported
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	SERVICE STATION/BULK
Closed Date:	Not reported	Pipe Material:	GALVANIZED STEEL
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	No	Pipe Cathodic:	No
Tank Remedial:	Daily Stick		
Pipe Remedial:	Not reported		
Owner:	HOLIDAY STATIONSTORE INC		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
HOLIDAY STATIONSTORE #184 (Continued)		U000274773
Owner Address: 4567 W 80TH ST MINNEAPOLIS, MN 55440		
Facility ID:	5214	Telephone: 2182299380
Tank ID:	003	Capacity: 10000
Tank Number:	003	Material: STI-P3
Tank Status:	REMOVED	Product: GASOLINE
Install Date:	01-sep-1984	Dispense Type: SUBMERSIBLE
Remove Date:	04-jun-1996	Spill Containment: Not reported
Last Update:	10/04/1999	
Tank Location:	Under Ground	Facility Type: SERVICE STATION/BULK
Closed Date:	Not reported	Pipe Material: GALVANIZED STEEL
Overfill Protect:	Not reported	Protection Type: No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt: Unknown
Tank Cathodic:	Anode/Tank	Pipe Cathodic: No
Tank Remedial:	Daily Stick	
Pipe Remedial:	Not reported	
Owner:	HOLIDAY STATIONSTORE INC	
Owner Address: 4567 W 80TH ST MINNEAPOLIS, MN 55440		
Facility ID:	5214	Telephone: 2182299380
Tank ID:	004	Capacity: 8000
Tank Number:	004	Material: JACKETED STEEL
Tank Status:	ACTIVE	Product: GASOLINE
Install Date:	03-jul-1996	Dispense Type: SUBMERSIBLE
Remove Date:	Not reported	Spill Containment: Yes
Last Update:	10/04/1999	
Tank Location:	Under Ground	Facility Type: SERVICE STATION/BULK
Closed Date:	Not reported	Pipe Material: ENVIRON GEOFLEX
Overfill Protect:	Not reported	Protection Type: Ballfloat
Tnk 2nd Cntnmnt:	Doublewall Tank	Pipe 2nd Cntnmnt: Doublewall Pipe
Tank Cathodic:	Not Needed	Pipe Cathodic: Not Needed
Tank Remedial:	Daily Stick	
Pipe Remedial:	Auto Line Leak Detect	
Owner:	HOLIDAY STATIONSTORE INC	
Owner Address: 4567 W 80TH ST MINNEAPOLIS, MN 55440		
Facility ID:	5214	Telephone: 2182299380
Tank ID:	005	Capacity: 8000
Tank Number:	005	Material: JACKETED STEEL
Tank Status:	ACTIVE	Product: GASOLINE
Install Date:	03-jul-1996	Dispense Type: SUBMERSIBLE
Remove Date:	Not reported	Spill Containment: Yes
Last Update:	10/04/1999	
Tank Location:	Under Ground	Facility Type: SERVICE STATION/BULK
Closed Date:	Not reported	Pipe Material: ENVIRON GEOFLEX
Overfill Protect:	Not reported	Protection Type: Ballfloat
Tnk 2nd Cntnmnt:	Doublewall Tank	Pipe 2nd Cntnmnt: Doublewall Pipe
Tank Cathodic:	Not Needed	Pipe Cathodic: Not Needed
Tank Remedial:	Daily Stick	
Pipe Remedial:	Auto Line Leak Detect	
Owner:	HOLIDAY STATIONSTORE INC	
Owner Address: 4567 W 80TH ST MINNEAPOLIS, MN 55440		

DETAILED ORPHAN LISTING

Site	Database(s)		EDR ID Number EPA ID Number
HOLIDAY STATIONSTORE #184 (Continued)			U000274773
Facility ID: 5214 Tank ID: 006 Tank Number: 006 Tank Status: ACTIVE Install Date: 03-jul-1996 Remove Date: Not reported Last Update: 10/04/1999 Tank Location: Under Ground Closed Date: Not reported Overfill Protect: Not reported Tnk 2nd Cntnmnt: Doublewall Tank Tank Cathodic: Not Needed Tank Remedial: Daily Stick Pipe Remedial: Auto Line Leak Detect Owner: HOLIDAY STATIONSTORE INC Owner Address: 4567 W 80TH ST MINNEAPOLIS, MN 55440	Telephone: 2182299380 Capacity: 8000 Material: JACKETED STEEL Product: ALCOHOL BLEND Dispense Type: SUBMERSIBLE Spill Containment: Yes Facility Type: SERVICE STATION/BULK Pipe Material: ENVIRON GEOFLEX Protection Type: Ballfloat Pipe 2nd Cntnmnt: Doublewall Pipe Pipe Cathodic: Not Needed		
Facility ID: 5214 Tank ID: 007 Tank Number: 007 Tank Status: ACTIVE Install Date: 03-jul-1996 Remove Date: Not reported Last Update: 10/04/1999 Tank Location: Under Ground Closed Date: Not reported Overfill Protect: Not reported Tnk 2nd Cntnmnt: Doublewall Tank Tank Cathodic: Not Needed Tank Remedial: Daily Stick Pipe Remedial: Auto Line Leak Detect Owner: HOLIDAY STATIONSTORE INC Owner Address: 4567 W 80TH ST MINNEAPOLIS, MN 55440	Telephone: 2182299380 Capacity: 8000 Material: JACKETED STEEL Product: GASOLINE Dispense Type: SUBMERSIBLE Spill Containment: Yes Facility Type: SERVICE STATION/BULK Pipe Material: ENVIRON GEOFLEX Protection Type: Ballfloat Pipe 2nd Cntnmnt: Doublewall Pipe Pipe Cathodic: Not Needed		
Facility ID: 5214 Tank ID: 008 Tank Number: 008 Tank Status: ACTIVE Install Date: 03-jul-1996 Remove Date: Not reported Last Update: 10/04/1999 Tank Location: Under Ground Closed Date: Not reported Overfill Protect: Not reported Tnk 2nd Cntnmnt: Doublewall Tank Tank Cathodic: Not Needed Tank Remedial: Daily Stick Pipe Remedial: Auto Line Leak Detect Owner: HOLIDAY STATIONSTORE INC Owner Address: 4567 W 80TH ST MINNEAPOLIS, MN 55440	Telephone: 2182299380 Capacity: 8000 Material: JACKETED STEEL Product: DIESEL Dispense Type: SUBMERSIBLE Spill Containment: Yes Facility Type: SERVICE STATION/BULK Pipe Material: ENVIRON GEOFLEX Protection Type: Ballfloat Pipe 2nd Cntnmnt: Doublewall Pipe Pipe Cathodic: Not Needed		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number	EPA ID Number
MONSANTO PLANT (FORMER) HWY 110 AURORA, MN 55705	UST	U000274777	N/A
UST:			
Facility ID: 5105	Telephone: 612		
Tank ID: 001	Capacity: 1000		
Tank Number: 001	Material: BARE/PAINT/ASPH COAT STEEL		
Tank Status: REMOVED	Product: GASOLINE		
Install Date: 01-jan-1900	Dispense Type: SUCTION		
Remove Date: Not reported	Spill Containment: Not reported		
Last Update: 10/04/1999			
Tank Location: Under Ground	Facility Type: INDUSTRY/MANUFACTURING		
Closed Date: Not reported	Pipe Material: STEEL/IRON		
Overfill Protect: Not reported	Protection Type: No Info		
Tnk 2nd Cntnmnt: Not Applicable	Pipe 2nd Cntnmnt: Unknown		
Tank Cathodic: No	Pipe Cathodic: No		
Tank Remedial: Daily Stick			
Pipe Remedial: European Suction			
Owner: VIKING EXPLOSIVES & SUPPLY INC			
Owner Address: PO BOX 207 - STAR ROUTE 2 HIBBING, MN 55746			
Facility ID: 5105	Telephone: 612		
Tank ID: 002	Capacity: 1000		
Tank Number: 002	Material: BARE/PAINT/ASPH COAT STEEL		
Tank Status: REMOVED	Product: GASOLINE		
Install Date: 01-jan-1900	Dispense Type: SUCTION		
Remove Date: Not reported	Spill Containment: Not reported		
Last Update: 10/04/1999			
Tank Location: Under Ground	Facility Type: INDUSTRY/MANUFACTURING		
Closed Date: Not reported	Pipe Material: STEEL/IRON		
Overfill Protect: Not reported	Protection Type: No Info		
Tnk 2nd Cntnmnt: Not Applicable	Pipe 2nd Cntnmnt: Unknown		
Tank Cathodic: No	Pipe Cathodic: No		
Tank Remedial: Daily Stick			
Pipe Remedial: European Suction			
Owner: VIKING EXPLOSIVES & SUPPLY INC			
Owner Address: PO BOX 207 - STAR ROUTE 2 HIBBING, MN 55746			
Facility ID: 5105	Telephone: 612		
Tank ID: 003	Capacity: 1000		
Tank Number: 003	Material: BARE/PAINT/ASPH COAT STEEL		
Tank Status: REMOVED	Product: FUEL OIL		
Install Date: 01-jan-1900	Dispense Type: SUCTION		
Remove Date: Not reported	Spill Containment: Not reported		
Last Update: 10/04/1999			
Tank Location: Under Ground	Facility Type: INDUSTRY/MANUFACTURING		
Closed Date: Not reported	Pipe Material: STEEL/IRON		
Overfill Protect: Not reported	Protection Type: No Info		
Tnk 2nd Cntnmnt: Not Applicable	Pipe 2nd Cntnmnt: Unknown		
Tank Cathodic: No	Pipe Cathodic: No		
Tank Remedial: Not reported			
Pipe Remedial: European Suction			
Owner: VIKING EXPLOSIVES & SUPPLY INC			
Owner Address: PO BOX 207 - STAR ROUTE 2 HIBBING, MN 55746			

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
HUDSON TRANSFER STATION HWY 135 FIRE 5910 1 1/2 MI N AURORA, MN 55705 RCRIS: Owner: ST LOUIS COUNTY (218) 726-2591 EPA ID: MND985710557 Contact: FRANCES MOLINARO (218) 229-3479 Classification: Small Quantity Generator Used Oil Recyc: No TSDF Activities: Not reported Violation Status: No violations found	RCRIS-SQG	1004732116 MND985710557
CURTISS WHITEGOODS PROCESSING INC 5910 HWY 135 N AURORA, MN 55705 RCRIS: Owner: ST LOUIS COUNTY (218) 725-5200 EPA ID: MND985753656 Contact: DAVID CURTISS (218) 246-8371 Classification: Small Quantity Generator Used Oil Recyc: No TSDF Activities: Not reported Violation Status: No violations found	RCRIS-SQG	1004733924 MND985753656
HUDSON SW TRANSFER STATION 5910 HIGHWAY 135 NORTH PO BOX AURORA, MN 55705 LF: Facility ID: SW-348 Contact: Ted Troolin Facility Status: Not reported Facility Phone: (218) 229-3479 Facility Type: Transfer Station Region: STATE Class: Not reported Prior Score: Not reported Fill Acres: Not reported	SWF/LF	S102726535 N/A
TED BURTON ROUTE 2 - PO BOX 65AA AURORA, MN 55705	UST	U000274782 N/A

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

TED BURTON (Continued)

U000274782

UST:

Facility ID:	5120	Telephone:	2182293577
Tank ID:	001	Capacity:	500
Tank Number:	001	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	ACTIVE	Product:	FUEL OIL
Install Date:	01-sep-1976	Dispense Type:	SUCTION
Remove Date:	Not reported	Spill Containment:	Not reported
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	CONDOMIN/APTS/RES/TRLR CT
Closed Date:	Not reported	Pipe Material:	OTHER
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	Anode/Tank	Pipe Cathodic:	No
Tank Remedial:	Daily Stick		
Pipe Remedial:	European Suction		
Owner:	TED BURTON JR		
Owner Address:	PO BOX 59 - ROUTE 2 AURORA, MN 55705		

FORMERLY VIKING EXPLOSIVES

5796 E. 3RD AVE. N.
AURORA, MN 55705

LUST S104168518
N/A

LUST:

Leak ID:	1871
MPCA ID:	138247
Report Date:	10/25/1989
Closed Date:	12/07/1993
Contact:	Not reported
Contact Title:	Not reported

BERNIES AUTO SERVICE

321 W 3RD ST
AURORA, MN 55705

LUST S104168519
N/A

LUST:

Leak ID:	1911
MPCA ID:	138285
Report Date:	08/24/1989
Closed Date:	02/06/1997
Contact:	Not reported
Contact Title:	Not reported

VIKING EXPLOSIVES (FORMERLY)

5796 E 3RD AVE N
AURORA, MN 55705

LUST S104168547
N/A

LUST:

Leak ID:	4911
MPCA ID:	141138
Report Date:	06/08/1992
Closed Date:	12/07/1993
Contact:	Not reported
Contact Title:	Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
JOHNSONS AUTOMATIC 3622 HWY 99 AURORA, MN 55705 RCRIS: Owner: JOHNSON DARRELL T (218) 638-2025 EPA ID: MNR000018879 Contact: DARRELL JOHNSON (218) 638-2025 Classification: Small Quantity Generator Used Oil Recyc: No TSDf Activities: Not reported Violation Status: No violations found	RCRIS-SQG	1004736285 MNR000018879
HUDSON SOLID WASTE TRANSFER ST APPROXIMATELY 1 MILE N OF THE HWY 100 / AURORA, MN 55705 MN LS: CERCLIS: False No Further Remedial Action Planned: False National Priorities List: False Delisted From PLP By MPCA: False Solid Waste Permit: True Open Dump Inventory: False Voluntary Cleanup & Investigation: False HWIC: False RCRA Treatment Storage & Disposal: False METRO Dump Inventory: False MPCA ID: MNSW00000348 County Code: 69 PLP: False Facility Name 2: Not reported Link ID: 3073 LCP: F Brown: F	MN LS	S103854724 N/A
HUDSON DEMOLITION LANDFILL PO BOX 160 AURORA, MN 55705 LF: Facility ID: SW-369 Contact: Ted Troolin Facility Status: Closed Facility Phone: (218) 749-9703 Facility Type: Demolition Landfill Region: STATE Class: Not reported Prior Score: Not reported Fill Acres: Not reported	SWF/LF	S102263136 N/A

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
HUDSON SANITARY LF PO BOX 160 AURORA, MN 55705 LF: Facility ID: SW-128 Contact: Ted Troolin Facility Status: Closed Facility Phone: (218) 749-9703 Facility Type: Sanitary Landfill Region: STATE Class: Not reported Prior Score: Not reported Fill Acres: Not reported	SWF/LF	S103283650 N/A
HNATKO PROPERTY SW CORNER OF 1ST W / 3RD AVE N AURORA, MN 55705 LUST: Leak ID: 9755 MPCA ID: 145818 Report Date: 09/19/1996 Closed Date: / / Contact: Not reported Contact Title: Not reported	LUST	S105244992 N/A
FORMER AURORA AMOCO 216-218 MAIN ST AURORA, MN 55705 LUST: Leak ID: 6059 MPCA ID: 142247 Report Date: 12/04/1992 Closed Date: 05/03/1995 Contact: Not reported Contact Title: Not reported	LUST	S100412400 N/A
ERIE MINING DUMP - 2 2 1/2 MI NW OF INTER OF CSAH 110 / CORD AURORA, MN 55705 MN LS: CERCLIS: False No Further Remedial Action Planned: False National Priorities List: False Delisted From PLP By MPCA: False Solid Waste Permit: False Open Dump Inventory: True Voluntary Cleanup & Investigation: False HWIC: False RCRA Treatment Storage & Disposal: False METRO Dump Inventory: False MPCA ID: MNODI0001125 County Code: 69 PLP: False Facility Name 2: Not reported Link ID: 2681	MN LS	S103315017 N/A

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

ERIE MINING DUMP - 2 (Continued)

S103315017

LCP:	F
Brown:	F

HUDSON DEMOLITION LANDFILL
1 MILE N OF THE HWY 135 / HWY 100
AURORA, MN 55705

MN LS S103315186
N/A

MN LS:

CERCLIS:	False
No Further Remedial Action Planned:	False
National Priorities List:	False
Delisted From PLP By MPCA:	False
Solid Waste Permit:	True
Open Dump Inventory:	False
Voluntary Cleanup & Investigation:	False
HWIC:	False
RCRA Treatment Storage & Disposal:	False
METRO Dump Inventory:	False
MPCA ID:	MNSW00000369
County Code:	69
PLP:	False
Facility Name 2:	Not reported
Link ID:	3371
LCP:	F
Brown:	F

MONSANTO CO
OLD ST RTE 135 1M E OOF AURORA
AURORA, MN 55705

RCRIS-SQG 1000376858
FINDS MNT280010380

RCRIS:

Owner:	MONSANTO CO (312) 555-1212
EPA ID:	MNT280010380
Contact:	DOUG PEITSO (218) 229-2228
Classification:	Small Quantity Generator
Used Oil Recyc:	No
TSDf Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

- Facility Registry System (FRS)
- Resource Conservation and Recovery Act Information system (RCRAINFO)

FORMER TACONITE OIL INC BULK F
RAILROAD AVE
AURORA, MN 55705

LUST S103909814
N/A

LUST:

Leak ID:	5994
MPCA ID:	142186
Report Date:	11/24/1992
Closed Date:	08/05/1996

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
FORMER TACONITE OIL INC BULK F (Continued)		S103909814
Contact: Not reported Contact Title: Not reported		
NRI ELECTRONICS AND CABLES INC SECOND ST E AND FORESTRY RD AURORA, MN 55705	RCRIS-SQG	1004736503 MNR000022103
RCRIS: Owner: FONDIE JOE (218) 229-3426 EPA ID: MNR000022103 Contact: JOE FONDIE (218) 229-3426 Classification: Small Quantity Generator Used Oil Recyc: No TSDF Activities: Not reported Violation Status: No violations found		
FORMER AMOCO SVC STATION 216 THRU 218 MAIN ST AURORA, MN 55705	RCRIS-SQG FINDS	1000980118 MN0000940858
RCRIS: Owner: AURORA CITY OF (218) 229-3671 EPA ID: MN0000940858 Contact: ALAN HODNIK (218) 229-2614 Classification: Small Quantity Generator Used Oil Recyc: No TSDF Activities: Not reported Violation Status: No violations found		
FINDS: Other Pertinent Environmental Activity Identified at Site: Facility Registry System (FRS) Resource Conservation and Recovery Act Information system (RCRAINFO)		
ERIE MINING DUMP - 1 "4 1/2 MI E OF INTER OF CSAH70 / CORD623 BABBITT, MN 55706	MN LS	S103315018 N/A
MN LS: CERCLIS: False No Further Remedial Action Planned: False National Priorities List: False Delisted From PLP By MPCA: False Solid Waste Permit: False Open Dump Inventory: True Voluntary Cleanup & Investigation: False HWIC: False RCRA Treatment Storage & Disposal: False METRO Dump Inventory: False		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

ERIE MINING DUMP - 1 (Continued)

S103315018

MPCA ID:	MNODI0001126
County Code:	69
PLP:	False
Facility Name 2:	Not reported
Link ID:	2682
LCP:	F
Brown:	F

URBAN
HWY 21
BABBITT, MN 55706

LUST S101648602
MN Spills N/A

LUST:

Leak ID:	8227
MPCA ID:	144348
Report Date:	03/11/1995
Closed Date:	11/30/1995
Contact:	Not reported
Contact Title:	Not reported

MN SPILLS:

Facility ID:	26202	Units:	GALLONS
Reported By:	Not reported	Action Taken:	NO FILE, NO CONTACT WITH RP
Product:	DIESEL		
Incident Date:	Not reported		
Date Reported:	07/18/97		
Amount Spilled:	20		
Priority:	NO		
Incident:	A TRUCK ROLLED OVER. GAS WAS ON HIGHWAY. DIESEL IN FIELD		
Spill Cause:	SPILL		
Location:	Not reported		
Region:	Not reported		
Spill:	Not reported		
Report:	Not reported		
Project Mngr:	Not reported		
Respnbl Party:	Not reported		
Description:	Not reported		
MN Pollution Control Agency:	RWK		

NORTHERN LIGHTS LODGE
9089 HIGHWAY 21 N
BABBITT, MN 55706

LUST U000728122
UST N/A
AST

LUST:

Leak ID:	6522
MPCA ID:	142699
Report Date:	07/09/1993
Closed Date:	06/19/1998
Contact:	Not reported
Contact Title:	Owner

Leak ID:	6522
MPCA ID:	142699
Report Date:	07/09/1993
Closed Date:	06/19/1998
Contact:	JAMES RUSK
Contact Title:	Responsible Party

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

NORTHERN LIGHTS LODGE (Continued)

U000728122

UST:

Facility ID:	16216	Telephone:	2188272501
Tank ID:	001	Capacity:	550
Tank Number:	001	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	REMOVED	Product:	GASOLINE
Install Date:	01-jan-1970	Dispense Type:	SUBMERSIBLE
Remove Date:	12-oct-1993	Spill Containment:	Not reported
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	MARINA/BAIT/RESORT/CAMPGR
Closed Date:	Not reported	Pipe Material:	STEEL/IRON
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	No	Pipe Cathodic:	No
Tank Remedial:	Gauging		
Pipe Remedial:	Not reported		
Owner:	JAMES E RUSK		
Owner Address:	9089 HWY 21 N BABBITT, MN 55706		

AST:

Facility ID:	16216	Tank ID:	1001
Telephone:	(218) 827 - 2501	Facility Type:	MARINA/BAIT/RESORT/CAMPGR
Location:	B		
Owner:	JAMES E RUSK 9089 HWY 21 N BABBITT, MN 55706		
Tank Status:	ACTIVE	Tank Level:	Above Ground
Tank Location:	A	Tank Number:	1001
Tank Material:	DOUBLEWALL METAL	Product Stored:	GASOLINE
Tank Capacity:	300	Dispenser Type:	Not reported
Install Date:	01-jul-1994	Remove Date:	Not reported
Closed Date:	Not reported		
Dike Side Mtrl:	NONE	Dike Bottom Mtrl:	NONE
Spill Prvntn Cntrl:	Yes	Load Rack:	No
Rack Paved:	No	Rack Curbed:	No
Pipe Material:	NONE	Pipe Level:	Not reported
Last Update:	10/04/1999		
Pipe Cathodic:	Not reported	Pipe Dbl Walled:	Not reported

CURTISS WHITEGOODS PROCESSING INC
9384 HWY 21N
BABBITT, MN 55706

RCRIS-SQG 1004733950
MND985754027

RCRIS:

Owner: ST LOUIS COUNTY
(218) 725-5200
EPA ID: MND985754027
Contact: DAVID CURTISS
(218) 246-8371
Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

CURTISS WHITEGOODS PROCESSING INC (Continued)

1004733950

Violation Status: No violations found

ROGERS DIAGNOSTIC CTR
2667 HWY 70
BABBITT, MN 55706

RCRIS-SQG 1004732243
MND985713114

RCRIS:

Owner: HUJEANEN ROGER
(218) 827-2537
EPA ID: MND985713114
Contact: ROGER HUJANEN
(218) 827-2537
Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported
Violation Status: No violations found

BABBITT
BABBITT, MN 55706

LUST S100258698
MN Spills N/A

LUST:

Leak ID: 2359
MPCA ID: 138705
Report Date: 03/12/1990
Closed Date: 04/06/1992
Contact: Not reported
Contact Title: Not reported

MN SPILLS:

Facility ID: Not reported
Reported By: Not reported
Product: #5 FUEL OIL
Incident Date: 11-Nov-00
Date Reported: Not reported
Amount Spilled: Not reported
Priority: Not reported
Incident: Not reported
Spill Cause: UG
Location: Not reported
Region: 1N
Spill: 1956
Report: 3-Jun-86
Project Mngr: ?
Respnbl Party: KBF
Description: Not reported
MN Pollution Control Agency: Not reported

Units: Not reported
Action Taken: Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

(Continued)

S100258698

Facility ID: 111073
 Reported By: Not reported
 Product: Not reported
 Incident Date: Not reported
 Date Reported: Not reported
 Amount Spilled: Not reported
 Priority: Not reported
 Incident: Not reported
 Spill Cause: Not reported
 Location: Not reported
 Region: Not reported
 Spill: Not reported
 Report: Not reported
 Project Mngr: Not reported
 Respnbl Party: Not reported
 Description: Not reported
 MN Pollution Control Agency: 31192

Units: 69
 Action Taken: Not reported

Facility ID: 110427
 Reported By: Not reported
 Product: Not reported
 Incident Date: Not reported
 Date Reported: Not reported
 Amount Spilled: Not reported
 Priority: Not reported
 Incident: Not reported
 Spill Cause: Not reported
 Location: Not reported
 Region: Not reported
 Spill: Not reported
 Report: Not reported
 Project Mngr: Not reported
 Respnbl Party: Not reported
 Description: Not reported
 MN Pollution Control Agency: 30509

Units: 69
 Action Taken: Not reported

**BABBITT TIRE CYCLE
 COUNTY ROAD 623
 BABBITT, MN 55706**

**LUST S100055621
 N/A**

LUST:

Leak ID: 4498
 MPCA ID: 140745
 Report Date: 09/09/1991
 Closed Date: 04/25/1996
 Contact: Not reported
 Contact Title: Not reported

**NORTHWOODS SANITARY LANDFILL
 OFF OF COUNTY ROAD 21 NORTHWEST OF BEAR
 BABBITT, MN 55706**

**MN LS S102659238
 N/A**

MN LS:

CERCLIS: False
 No Further Remedial Action Planned: False
 National Priorities List: False
 Delisted From PLP By MPCA: True

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

NORTHWOODS SANITARY LANDFILL (Continued)

S102659238

Solid Waste Permit:	True
Open Dump Inventory:	True
Voluntary Cleanup & Investigation:	False
HWIC:	False
RCRA Treatment Storage & Disposal:	False
METRO Dump Inventory:	False
MPCA ID:	MNSW00000068
County Code:	69
PLP:	False
Facility Name 2:	Not reported
Link ID:	1163
LCP:	T
Brown:	F

NORTHSHORE MINING CO - SLUDGE 1/2 MI S ON CO HWY 70, FROM CO HWY 623 BABBITT, MN 55706

MN LS S105271663
N/A

MN LS:

CERCLIS:	False
No Further Remedial Action Planned:	False
National Priorities List:	False
Delisted From PLP By MPCA:	False
Solid Waste Permit:	False
Open Dump Inventory:	False
Voluntary Cleanup & Investigation:	False
HWIC:	True
RCRA Treatment Storage & Disposal:	False
METRO Dump Inventory:	False
MPCA ID:	HWIC00001045
County Code:	69
PLP:	False
Facility Name 2:	Not reported
Link ID:	4642
LCP:	F
Brown:	F

BENVILLE SERVICE INC STAR RTE HWY 21 BABBITT, MN 55706

RCRIS-SQG 1000433117
FINDS MND022714091
LUST

RCRIS:

Owner:	BENVILLE SERVICE INC (312) 555-1212
EPA ID:	MND022714091
Contact:	AHO LAWRENCE (218) 827-2495
Classification:	Small Quantity Generator
Used Oil Recyc:	No
TSDF Activities:	Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

BENVILLE SERVICE INC (Continued)

1000433117

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

LUST:

Leak ID: 13661
MPCA ID: 155540
Report Date: 10/09/2000
Closed Date: / /
Contact: Allen White
Contact Title: Responsible Party

Leak ID: 13661
MPCA ID: 155540
Report Date: 10/09/2000
Closed Date: / /
Contact: Not reported
Contact Title: Owner

UNION CARBIDE CORP
TOMAHAWK TRAIL 7 MI E OF TOWN
BABBITT, MN 55706

RCRIS-SQG 1000336136
FINDS MNT280010166

RCRIS:

Owner: NAME NOT REPORTED
(312) 555-1212
EPA ID: MNT280010166
Contact: C MORTON
(218) 827-2131

Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

UNAUTHORIZED DUMP - 2
~ 3/4 MI ON CO HWY 64 S FROM W PIKE RD
BIWABIK, MN 55706

MN LS S105271664
N/A

MN LS:

CERCLIS: False
No Further Remedial Action Planned: False
National Priorities List: False
Delisted From PLP By MPCA: False
Solid Waste Permit: False
Open Dump Inventory: True
Voluntary Cleanup & Investigation: False
HWIC: False
RCRA Treatment Storage & Disposal: False

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

UNAUTHORIZED DUMP - 2 (Continued)

S105271664

METRO Dump Inventory:	False
MPCA ID:	MNODI0001639
County Code:	69
PLP:	False
Facility Name 2:	Not reported
Link ID:	4544
LCP:	F
Brown:	F

GIANTS RIDGE GOLF & SKI RESORT COUNTY RD 135 BIWABIK, MN 55732

UST U003661767
N/A

UST:

Facility ID:	21065	Telephone:	2188654713
Tank ID:	001	Capacity:	2000
Tank Number:	001	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	REMOVED	Product:	DIESEL
Install Date:	01-jan-1984	Dispense Type:	SUCTION
Remove Date:	26-may-1999	Spill Containment:	Yes
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	MARINA/BAIT/RESORT/CAMPGR
Closed Date:	Not reported	Pipe Material:	STEEL/IRON
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	No	Pipe Cathodic:	No
Tank Remedial:	Not reported		
Pipe Remedial:	Not reported		
Owner:	GIANTS RIDGE GOLF AND SKI RESORT		
Owner Address:	COUNTY RD 138 BIWABIK, MN 55732		

Facility ID:	21065	Telephone:	2188654713
Tank ID:	002	Capacity:	2000
Tank Number:	002	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	REMOVED	Product:	GASOLINE
Install Date:	01-jan-1984	Dispense Type:	SUCTION
Remove Date:	26-may-1999	Spill Containment:	No
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	MARINA/BAIT/RESORT/CAMPGR
Closed Date:	Not reported	Pipe Material:	STEEL/IRON
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	No	Pipe Cathodic:	No
Tank Remedial:	Not reported		
Pipe Remedial:	Not reported		
Owner:	GIANTS RIDGE GOLF AND SKI RESORT		
Owner Address:	COUNTY RD 138 BIWABIK, MN 55732		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

GIANTS RIDGE GOLF & SKI RESORT
COUNTY RD 138
BIWABIK, MN 55732

LUST S104168714
N/A

LUST:

Leak ID: 12825
MPCA ID: 148744
Report Date: 08/03/1999
Closed Date: / /
Contact: ALAM JOHNSON
Contact Title: Owner

HERUONEN ARVO
ROUTE 2 - PO BOX 57
EMBARRASS, MN 55732

UST U000882058
N/A

UST:

Facility ID:	11179	Telephone:	2189842941
Tank ID:	001	Capacity:	1500
Tank Number:	001	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	REMOVED	Product:	GASOLINE
Install Date:	01-jun-1971	Dispense Type:	SUBMERSIBLE
Remove Date:	Not reported	Spill Containment:	Not reported
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	AGRICULTURAL
Closed Date:	Not reported	Pipe Material:	STEEL/IRON
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	Anode/Tank	Pipe Cathodic:	No
Tank Remedial:	Not reported		
Pipe Remedial:	Not reported		
Owner:	ARVO HERUONEN		
Owner Address:	PO BOX 57 - ROUTE 2 EMBARRASS, MN 55732		

EMBARRASS PUBLIC SCHOOL BLDG
HWY 21
EMBARRASS, MN 55732

RCRIS-SQG 1000888350
FINDS MN0000190579

RCRIS:

Owner: ST LOUIS COUNTY
(218) 726-2606
EPA ID: MN0000190579
Contact: DENNY BONE
(218) 749-7132
Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported
Violation Status: No violations found

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

EMBARRASS PUBLIC SCHOOL BLDG (Continued)

1000888350

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Facility Registry System (FRS)
 Resource Conservation and Recovery Act Information system (RCRAINFO)

DIVISION 4 - EMBARRASS
CO HWY 21
EMBARRASS, MN 55732

UST **U000886822**
N/A

UST:

Facility ID:	5379	Telephone:	2189842161
Tank ID:	099	Capacity:	3000
Tank Number:	099	Material:	STI-P3
Tank Status:	RECONDITIONED	Product:	DIESEL
Install Date:	01-jan-1985	Dispense Type:	SUCTION
Remove Date:	Not reported	Spill Containment:	Yes
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	GOVERNMENT/COUNTY
Closed Date:	Not reported	Pipe Material:	ENVIROFLEX
Overfill Protect:	Not reported	Protection Type:	Alarm
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Doublewall Pipe
Tank Cathodic:	Anode/Tank	Pipe Cathodic:	Not Needed
Tank Remedial:	Auto Gauging		
Pipe Remedial:	Interstitial Monitoring		
Owner:	ST LOUIS COUNTY HIGHWAY DEPT		
Owner Address:	100 N 5TH AVE W/COURTHOUSE ROOM 1 DULUTH, MN 55802		

Facility ID:	5379	Telephone:	2189842161
Tank ID:	250	Capacity:	3000
Tank Number:	250	Material:	STI-P3
Tank Status:	RECONDITIONED	Product:	ALCOHOL BLEND
Install Date:	01-jan-1985	Dispense Type:	SUCTION
Remove Date:	Not reported	Spill Containment:	Yes
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	GOVERNMENT/COUNTY
Closed Date:	Not reported	Pipe Material:	ENVIROFLEX
Overfill Protect:	Not reported	Protection Type:	Alarm
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Doublewall Pipe
Tank Cathodic:	Anode/Tank	Pipe Cathodic:	Not Needed
Tank Remedial:	Auto Gauging		
Pipe Remedial:	Interstitial Monitoring		
Owner:	ST LOUIS COUNTY HIGHWAY DEPT		
Owner Address:	100 N 5TH AVE W/COURTHOUSE ROOM 1 DULUTH, MN 55802		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

DIVISION 4 - EMBARRASS (Continued)

U000886822

Facility ID:	5379	Telephone:	2189842161
Tank ID:	251	Capacity:	550
Tank Number:	251	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	REMOVED	Product:	WASTE OIL
Install Date:	01-jan-1987	Dispense Type:	SUCTION
Remove Date:	11-apr-1994	Spill Containment:	Not reported
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	GOVERNMENT/COUNTY
Closed Date:	Not reported	Pipe Material:	GALVANIZED STEEL
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	Anode/Tank	Pipe Cathodic:	No
Tank Remedial:	Daily Stick		
Pipe Remedial:	European Suction		
Owner:	ST LOUIS COUNTY HIGHWAY DEPT		
Owner Address:	100 N 5TH AVE W/COURTHOUSE ROOM 1 DULUTH, MN 55802		

Facility ID:	5379	Telephone:	2189842161
Tank ID:	444	Capacity:	550
Tank Number:	444	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	REMOVED	Product:	FUEL OIL
Install Date:	01-jan-1900	Dispense Type:	SUCTION
Remove Date:	01-jan-1987	Spill Containment:	No
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	GOVERNMENT/COUNTY
Closed Date:	Not reported	Pipe Material:	GALVANIZED STEEL
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmnt:	Not Applicable	Pipe 2nd Cntnmnt:	Unknown
Tank Cathodic:	No	Pipe Cathodic:	No
Tank Remedial:	Not reported		
Pipe Remedial:	European Suction		
Owner:	ST LOUIS COUNTY HIGHWAY DEPT		
Owner Address:	100 N 5TH AVE W/COURTHOUSE ROOM 1 DULUTH, MN 55802		

**NORWEST BANK HOYT LAKES NA
HWY 10 SHOPPING CTR
HOYT LAKES, MN 55750**

**RCRIS-SQG 1000888750
FINDS MN0000265603**

RCRIS:

Owner: NORWEST CORP
(612) 667-5900
EPA ID: MN0000265603
Contact: RAYMOND SINK
(218) 723-2627

Classification: Handler transports wastes for self, Small Quantity Generator
Used Oil Recyc: No
TSD Activities: Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

NORWEST BANK HOYT LAKES NA (Continued)

1000888750

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

HOYT LAKES DEMOLITION LANDFILL
APPROX. 2 MILES N ON THE HWY 110 / CO RD
HOYT LAKES, MN 55750

MN LS S102659208
N/A

MN LS:

CERCLIS:	False
No Further Remedial Action Planned:	False
National Priorities List:	False
Delisted From PLP By MPCA:	False
Solid Waste Permit:	True
Open Dump Inventory:	False
Voluntary Cleanup & Investigation:	False
HWIC:	False
RCRA Treatment Storage & Disposal:	False
METRO Dump Inventory:	False
MPCA ID:	MNSW00000370
County Code:	69
PLP:	False
Facility Name 2:	Not reported
Link ID:	3079
LCP:	F
Brown:	F

PO BOX 847
HOYT LAKES, MN 55750

LUST S100056049
MN Spills N/A
MN LS

LUST:

Leak ID:	4637
MPCA ID:	140877
Report Date:	10/03/1991
Closed Date:	04/04/1996
Contact:	JAMES R SCOTT
Contact Title:	Owner

Leak ID:	4637
MPCA ID:	140877
Report Date:	10/03/1991
Closed Date:	04/04/1996
Contact:	JAMES R. SCOTT
Contact Title:	Owner

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

(Continued)

S100056049

MN SPILLS:

Facility ID:	Not reported		
Reported By:	Not reported		
Product:	ASKEREL, PCB'S		
Incident Date:	Not reported		
Date Reported:	Not reported		
Amount Spilled:	Not reported	Units:	Not reported
Priority:	Not reported	Action Taken:	Not reported
Incident:	Not reported		
Spill Cause:	PCB DISPOSAL CERTIFICATES		
Location:	Not reported		
Region:	1N		
Spill:	9070		
Report:	30-Apr-84		
Project Mngr:	UNK		
Respnbl Party:	UNK		
Description:	Not reported		
MN Pollution Control Agency:	Not reported		

MN LS:

CERCLIS:	False
No Further Remedial Action Planned:	False
National Priorities List:	False
Delisted From PLP By MPCA:	False
Solid Waste Permit:	True
Open Dump Inventory:	False
Voluntary Cleanup & Investigation:	False
HWIC:	False
RCRA Treatment Storage & Disposal:	False
METRO Dump Inventory:	False
MPCA ID:	MNSW00000467
County Code:	69
PLP:	False
Facility Name 2:	Not reported
Link ID:	3993
LCP:	F
Brown:	F

LTV STEEL MINING COMPANY
ST LOUIS COUNTY RD 666
HOYT LAKES, MN 55750

FINDS 1000132659
MN Spills MND022826283
RCRIS-LQG
MLTS

RCRIS:

Owner:	CLIFFS ERIE LLC (218) 225-4217
EPA ID:	MND022826283
Contact:	M. TOIVO (218) 225-4217
Classification:	Large Quantity Generator
Used Oil Recyc:	No
TSD Activities:	Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
LTV STEEL MINING COMPANY (Continued)		1000132659
Violation Status: Violations exist		
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-OTHER REQUIREMENTS	
Date Violation Determined:	10/15/1998	
Enforcement Action:	VIOLATION NOTICE (VN)	
Enforcement Action Date:	11/17/1998	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-OTHER REQUIREMENTS	
Date Violation Determined:	10/15/1998	
Enforcement Action:	VIOLATION NOTICE (VN)	
Enforcement Action Date:	11/17/1998	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS	
Date Violation Determined:	10/15/1998	
Enforcement Action:	VIOLATION NOTICE (VN)	
Enforcement Action Date:	11/17/1998	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-RECORDKEEPING REQUIREMENTS	
Date Violation Determined:	06/21/1994	
Enforcement Action:	VIOLATION NOTICE (VN)	
Enforcement Action Date:	07/18/1994	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS	
Date Violation Determined:	06/21/1994	
Enforcement Action:	VIOLATION NOTICE (VN)	
Enforcement Action Date:	07/18/1994	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-LAND BAN REQUIREMENTS	
Date Violation Determined:	06/21/1994	
Enforcement Action:	VIOLATION NOTICE (VN)	
Enforcement Action Date:	07/18/1994	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS	
Date Violation Determined:	10/28/1992	
Enforcement Action:	TEN DAY LETTER	
Enforcement Action Date:	12/07/1992	
Penalty Type:	Not reported	
Enforcement Action:	FORGIVEABLE ADMN PENALTY ORDER(APO)	
Enforcement Action Date:	05/21/1993	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-GENERAL REQUIREMENTS	
Date Violation Determined:	10/28/1992	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
LTV STEEL MINING COMPANY (Continued)		1000132659
Enforcement Action:	TEN DAY LETTER	
Enforcement Action Date:	12/07/1992	
Penalty Type:	Not reported	
Enforcement Action:	FORGIVEABLE ADMN PENALTY ORDER(APO)	
Enforcement Action Date:	05/21/1993	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS	
Date Violation Determined:	10/28/1992	
Enforcement Action:	TEN DAY LETTER	
Enforcement Action Date:	12/07/1992	
Penalty Type:	Not reported	
Enforcement Action:	FORGIVEABLE ADMN PENALTY ORDER(APO)	
Enforcement Action Date:	05/21/1993	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS	
Date Violation Determined:	10/28/1992	
Enforcement Action:	TEN DAY LETTER	
Enforcement Action Date:	12/07/1992	
Penalty Type:	Not reported	
Enforcement Action:	FORGIVEABLE ADMN PENALTY ORDER(APO)	
Enforcement Action Date:	05/21/1993	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS	
Date Violation Determined:	10/28/1992	
Enforcement Action:	TEN DAY LETTER	
Enforcement Action Date:	12/07/1992	
Penalty Type:	Not reported	
Enforcement Action:	FORGIVEABLE ADMN PENALTY ORDER(APO)	
Enforcement Action Date:	05/21/1993	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-OTHER REQUIREMENTS	
Date Violation Determined:	11/21/1988	
Enforcement Action:	VIOLATION NOTICE (VN)	
Enforcement Action Date:	12/12/1988	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-OTHER REQUIREMENTS	
Date Violation Determined:	11/21/1988	
Enforcement Action:	VIOLATION NOTICE (VN)	
Enforcement Action Date:	12/12/1988	
Penalty Type:	Not reported	
Regulation Violated:	Not reported	
Area of Violation:	GENERATOR-OTHER REQUIREMENTS	
Date Violation Determined:	11/21/1988	
Enforcement Action:	VIOLATION NOTICE (VN)	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

LTV STEEL MINING COMPANY (Continued)

1000132659

Enforcement Action Date: 12/12/1988
Penalty Type: Not reported

There are 14 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	GENERATOR-OTHER REQUIREMENTS	04/02/199
	GENERATOR-OTHER REQUIREMENTS	04/02/199
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	04/02/199
Compliance Evaluation Inspection	GENERATOR-RECORDKEEPING REQUIREMENTS	08/19/199
	GENERATOR-MANIFEST REQUIREMENTS	08/19/199
	GENERATOR-LAND BAN REQUIREMENTS	08/19/199
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	07/15/199
	GENERATOR-GENERAL REQUIREMENTS	07/15/199
	GENERATOR-MANIFEST REQUIREMENTS	07/15/199
	GENERATOR-MANIFEST REQUIREMENTS	07/15/199
	GENERATOR-MANIFEST REQUIREMENTS	07/15/199
Compliance Evaluation Inspection	GENERATOR-OTHER REQUIREMENTS	04/19/198
	GENERATOR-OTHER REQUIREMENTS	04/19/198
	GENERATOR-OTHER REQUIREMENTS	04/19/198

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Facility Registry System (FRS)

Resource Conservation and Recovery Act Information system (RCRAINFO)

MN SPILLS:

Facility ID:	29643	Units:	UNKNOWN
Reported By:	Not reported	Action Taken:	NO FILE, NO CONTACT WITH RP
Product:	Not reported		
Incident Date:	Not reported		
Date Reported:	26-Dec-98		
Amount Spilled:	Not reported		
Priority:	NO		
Incident:	Not reported		
Spill Cause:	EQUIPMENT FAILURE		
Location:	Not reported		
Region:	Not reported		
Spill:	Not reported		
Report:	Not reported		
Project Mngr:	Not reported		
Respnbl Party:	Not reported		
Description:	GATE MALFUNCTION RELEASEING WASTE WATER TO SEDIMENTATION BASIN, HOLDING POND, SMALL CREEK, TO ST. LOUIS RIVER. 5100/MINUTE		
MN Pollution Control Agency:	Not reported		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
LTV STEEL MINING COMPANY (Continued)		1000132659
Facility ID: 23239 Reported By: RP Product: DIESEL Incident Date: Not reported Date Reported: 04/01/96 Amount Spilled: 10 Priority: LOW Incident: Not reported Spill Cause: FIR Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: RWK Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: Not reported	Units: GALLONS Action Taken: NO FILE, NO CONTACT WITH RP	
Facility ID: 155276 Reported By: Not reported Product: Not reported Incident Date: Not reported Date Reported: Not reported Amount Spilled: Not reported Priority: Not reported Incident: Not reported Spill Cause: Not reported Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: Not reported Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: 52943	Units: 0 Action Taken: Not reported	
Facility ID: 155171 Reported By: Not reported Product: Not reported Incident Date: Not reported Date Reported: Not reported Amount Spilled: Not reported Priority: Not reported Incident: Not reported Spill Cause: Not reported Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: Not reported Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: 52901	Units: 69 Action Taken: Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
LTV STEEL MINING COMPANY (Continued)		1000132659
Facility ID: 153933 Reported By: Not reported Product: Not reported Incident Date: Not reported Date Reported: Not reported Amount Spilled: Not reported Priority: Not reported Incident: Not reported Spill Cause: Not reported Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: Not reported Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: 52124	Units: 69 Action Taken: Not reported	
Facility ID: 111140 Reported By: Not reported Product: Not reported Incident Date: Not reported Date Reported: Not reported Amount Spilled: Not reported Priority: Not reported Incident: Not reported Spill Cause: Not reported Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: Not reported Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: 31265	Units: 69 Action Taken: Not reported	
Facility ID: 110755 Reported By: Not reported Product: Not reported Incident Date: Not reported Date Reported: Not reported Amount Spilled: Not reported Priority: Not reported Incident: Not reported Spill Cause: Not reported Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: Not reported Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: 30854	Units: 69 Action Taken: Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
LTV STEEL MINING COMPANY (Continued)		1000132659
Facility ID: 110034 Reported By: Not reported Product: Not reported Incident Date: Not reported Date Reported: Not reported Amount Spilled: Not reported Priority: Not reported Incident: Not reported Spill Cause: Not reported Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: Not reported Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: 30090	Units: 69 Action Taken: Not reported	
Facility ID: 135138 Reported By: Not reported Product: Not reported Incident Date: Not reported Date Reported: Not reported Amount Spilled: Not reported Priority: Not reported Incident: Not reported Spill Cause: Not reported Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: Not reported Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: 50137	Units: 69 Action Taken: Not reported	
Facility ID: 110004 Reported By: Not reported Product: Not reported Incident Date: Not reported Date Reported: Not reported Amount Spilled: Not reported Priority: Not reported Incident: Not reported Spill Cause: Not reported Location: Not reported Region: Not reported Spill: Not reported Report: Not reported Project Mngr: Not reported Respnbl Party: Not reported Description: Not reported MN Pollution Control Agency: 30058	Units: 69 Action Taken: Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

LTV STEEL MINING COMPANY (Continued)

1000132659

Facility ID: 111259
 Reported By: Not reported
 Product: Not reported
 Incident Date: Not reported
 Date Reported: Not reported
 Amount Spilled: Not reported
 Priority: Not reported
 Incident: Not reported
 Spill Cause: Not reported
 Location: Not reported
 Region: Not reported
 Spill: Not reported
 Report: Not reported
 Project Mngr: Not reported
 Respnbl Party: Not reported
 Description: Not reported
 MN Pollution Control Agency: 31393

Units: 69
 Action Taken: Not reported

Facility ID: 111192
 Reported By: Not reported
 Product: Not reported
 Incident Date: Not reported
 Date Reported: Not reported
 Amount Spilled: Not reported
 Priority: Not reported
 Incident: Not reported
 Spill Cause: Not reported
 Location: Not reported
 Region: Not reported
 Spill: Not reported
 Report: Not reported
 Project Mngr: Not reported
 Respnbl Party: Not reported
 Description: Not reported
 MN Pollution Control Agency: 31321

Units: 69
 Action Taken: Not reported

MLTS:

License Number: 12-19333-02MD	First License Date: 0
License Date: 12/03/1986	Institution Code: 19333
License Expires: 09/30/1991	Primary Program: Nuclear Pharmacies
License Use: Not reported	
Department: Not reported	Building: Not reported
Contact Name: L.ADAMOVIC,PHARMACY RAD.SAF.OF	Contact Phone: Not reported
States Allowing Use: Not reported	
Store Material: No	
Redistribution: Yes	Incineration: No
Burial: No	
Last Inspection: Not reported	
Inspector Name: Not reported	
Next Inspection: 02/1987	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

DULUTH MISSABE & IRON RANGE HQ
MESABA
HOYT LAKES, MN 55750

UST U000889189
N/A

UST:

Facility ID:	13295	Telephone:	2189999999
Tank ID:	052	Capacity:	500
Tank Number:	052	Material:	BARE/PAINT/ASPH COAT STEEL
Tank Status:	ABANDONED/EMPTY	Product:	GASOLINE
Install Date:	01-jan-1901	Dispense Type:	SUCTION
Remove Date:	Not reported	Spill Containment:	Not reported
Last Update:	10/04/1999		
Tank Location:	Under Ground	Facility Type:	INDUSTRY/MANUFACTURING
Closed Date:	Not reported	Pipe Material:	STEEL/IRON
Overfill Protect:	Not reported	Protection Type:	No Info
Tnk 2nd Cntnmt:	Not Applicable	Pipe 2nd Cntnmt:	Unknown
Tank Cathodic:	No	Pipe Cathodic:	No
Tank Remedial:	Daily Stick		
Pipe Remedial:	European Suction		
Owner:	DULUTH MISSABE & IRON RR CO		
Owner Address:	329 2ND ST PROCTOR, MN 55810		

USX CORP MCKINLEY MINE
OFF HWY 135
HOYT LAKES, MN 55750

RCRIS-SQG 1000888593
FINDS MN0000231951

RCRIS:

Owner: USX CORP
(218) 749-7529
EPA ID: MN0000231951
Contact: LARRY LINDHOLM
(218) 749-7528
Classification: Small Quantity Generator
Used Oil Recyc: No
TSD Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/29/02

Date Made Active at EDR: 02/25/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/04/02

Elapsed ASTM days: 21

Date of Last EDR Contact: 05/06/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 01/17/02

Date Made Active at EDR: 02/25/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/04/02

Elapsed ASTM days: 21

Date of Last EDR Contact: 05/06/02

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/12/02

Date Made Active at EDR: 06/03/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02

Elapsed ASTM days: 70

Date of Last EDR Contact: 03/25/02

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/14/02
Date Made Active at EDR: 06/03/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 03/25/02

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/14/01
Date Made Active at EDR: 01/14/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/14/01
Elapsed ASTM days: 61
Date of Last EDR Contact: 03/11/02

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 03/22/02
Date Made Active at EDR: 06/03/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/28/02
Elapsed ASTM days: 67
Date of Last EDR Contact: 03/04/02

ERNS: Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/00
Date Made Active at EDR: 06/03/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/05/02
Elapsed ASTM days: 90
Date of Last EDR Contact: 04/29/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/99
Database Release Frequency: Biennially

Date of Last EDR Contact: 03/18/02
Date of Next Scheduled EDR Contact: 06/17/02

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 04/09/02
Date of Next Scheduled EDR Contact: 07/08/02

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/29/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/02
Date of Next Scheduled EDR Contact: 08/05/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/21/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/08/02
Date of Next Scheduled EDR Contact: 07/08/02

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/08/02
Date of Next Scheduled EDR Contact: 07/08/02

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 12/14/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/01/02
Date of Next Scheduled EDR Contact: 07/01/02

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/28/02
Date of Next Scheduled EDR Contact: 08/26/02

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 05/14/02
Date of Next Scheduled EDR Contact: 08/12/02

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/11/02
Date of Next Scheduled EDR Contact: 06/10/02

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/99
Database Release Frequency: Annually

Date of Last EDR Contact: 03/25/02
Date of Next Scheduled EDR Contact: 06/24/02

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 03/11/02
Date of Next Scheduled EDR Contact: 06/10/02

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 01/14/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/25/02
Date of Next Scheduled EDR Contact: 06/24/02

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/11/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/25/02
Date of Next Scheduled EDR Contact: 06/24/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF MINNESOTA ASTM STANDARD RECORDS

SHWS: Superfund Permanent List of Priorities

Source: Minnesota Pollution Control Agency

Telephone: 651-296-6139

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/01/01

Date Made Active at EDR: 10/12/01

Database Release Frequency: Annually

Date of Data Arrival at EDR: 09/10/01

Elapsed ASTM days: 32

Date of Last EDR Contact: 03/12/02

VIC: Voluntary Investigation and Cleanup Program

Source: Minnesota Pollution Control Agency

Telephone: 651-296-7291

Voluntary Investigation and Cleanup (VIC) Program List.

Date of Government Version: 04/04/02

Date Made Active at EDR: 05/06/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/10/02

Elapsed ASTM days: 26

Date of Last EDR Contact: 04/08/02

SWF/LF: Permitted Solid Waste Disposal Facilities

Source: Minnesota Pollution Control Agency

Telephone: 651-296-7276

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/01/00

Date Made Active at EDR: 02/02/01

Database Release Frequency: Varies

Date of Data Arrival at EDR: 01/03/01

Elapsed ASTM days: 30

Date of Last EDR Contact: 03/12/02

LUST: Leak Sites

Source: Minnesota Pollution Control Agency

Telephone: 651-649-5451

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 02/07/02

Date Made Active at EDR: 03/27/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/08/02

Elapsed ASTM days: 19

Date of Last EDR Contact: 04/16/02

UST: Underground Storage Tank Database

Source: Minnesota Pollution Control Agency

Telephone: 651-649-5451

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/13/99

Date Made Active at EDR: 11/04/99

Database Release Frequency: Varies

Date of Data Arrival at EDR: 10/19/99

Elapsed ASTM days: 16

Date of Last EDR Contact: 04/16/02

STATE OF MINNESOTA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Storage Tanks

Source: Minnesota Pollution Control Agency

Telephone: 651-296-0930

Registered Aboveground Storage Tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/13/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/16/02
Date of Next Scheduled EDR Contact: 07/15/02

SPILLS: Spills Database

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8617

Date of Government Version: 08/01/01
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/17/02
Date of Next Scheduled EDR Contact: 08/05/02

MN HWS PERMIT: Active TSD Facilities

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8470
Active TSD Facilities.

Date of Government Version: 01/02/02
Database Release Frequency: Annually

Date of Last EDR Contact: 04/16/02
Date of Next Scheduled EDR Contact: 07/15/02

MN Deleted SHWS: Permanent List of Priority Deletions

Source: Minnesota Pollution Control Agency
Telephone: 651-296-6139

The PLP rules specify that to delist a site, either all response actions required at a site have been completed, or that the site no longer poses a threat to public health or welfare or the environment.

Date of Government Version: 06/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 03/12/02
Date of Next Scheduled EDR Contact: 06/10/02

LCP: Closed Landfills Priority List

Source: Minnesota Pollution Control Agency
Telephone: 651-296-9543

The Minnesota Legislature enacted a law to manage and clean up the state's closed Mixed Municipal Solid Waste Landfills. Under that law, the MPCA is required to create and periodically revise a priority list of qualified landfills, based on the relative health and environmental risks they present. The MPCA established the first such priority list in December, 1994.

Date of Government Version: 07/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 03/26/02
Date of Next Scheduled EDR Contact: 06/24/02

LS: List of Sites

Source: Minnesota Pollution Control Agency
Telephone: 651-297-2731

The List of Sites includes: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP), National Priorities List (NPL), Permanent List of Priorities (PLP), sites delisted from the Permanent List of Priorities (DPLP), Hazardous Waste Permit Unit Project Facilities (HW PERM), List of Permitted Solid Waste Facilities (SW PERM), 1980 Metropolitan Area Waste Disposal Site Inventory (METRO), 1980 Statewide Outstate Dump Inventory (ODI), Voluntary and Investigation Program (VIC), and Closed Landfill Sites Undergoing Cleanup (LCP).

Date of Government Version: 04/02/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/12/02
Date of Next Scheduled EDR Contact: 06/10/02

ENFORCEMENT: Generators Associated with Enforcement Logs

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8332

Regulatory Compliance, Hazardous Waste Enforcement Log and Hazardous Waste Permit Unit Project Identification List.

Date of Government Version: 04/25/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/16/02
Date of Next Scheduled EDR Contact: 07/15/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BULK: Bulk Facilities Database

Source: Department of Agriculture

Telephone: 651-297-3997

Facilities that use bulk pesticides and fertilizers

Date of Government Version: 03/11/02

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/11/02

Date of Next Scheduled EDR Contact: 06/10/02

AG SPILLS: Department of Agriculture Spills

Source: Department of Agriculture

Telephone: 651-297-3997

This data is a list of pesticide/fertilizer incidents reported to have occurred in Minnesota.

Date of Government Version: 12/13/01

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/12/02

Date of Next Scheduled EDR Contact: 06/10/02

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

© 2001 Geographic Data Technology, Inc., Rel. 07/2001. This product contains proprietary and confidential property of Geographic Data Technology, Inc. Unauthorized use, including copying for other than testing and standard backup procedures, of this product is expressly prohibited.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer

This Report contains information obtained from a variety of public sources and EDR makes no representation or warranty regarding the accuracy, reliability, quality, or completeness of said information or the information contained in this report. The customer shall assume full responsibility for the use of this report.

No warranty of merchantability or of fitness for a particular purpose, expressed or implied, shall apply and EDR specifically disclaims the making of such warranties. In no event shall EDR be liable to anyone for special, incidental, consequential or exemplary damages.

APPENDIX D – EDR SEARCH, TACONITE HARBOR



The EDR Area Study Report

**Study Area
Cliffs Erie-Taconite Harbor
Taconite Harbor, MN 55786**

August 26, 2002

Inquiry number 835562.1s

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR).

TARGET PROPERTY INFORMATION

ADDRESS

CLIFFS ERIE-TACONITE HARBOR
TACONITE HARBOR, MN 55786

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL ASTM STANDARD

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP.....	CERCLIS No Further Remedial Action Planned
CORRACTS.....	Corrective Action Report
RCRIS-TSD.....	Resource Conservation and Recovery Information System
RCRIS-LQG.....	Resource Conservation and Recovery Information System
RCRIS-SQG.....	Resource Conservation and Recovery Information System

STATE ASTM STANDARD

SHWS.....	Superfund Permanent List of Priorities
MN VIC.....	Voluntary Investigation and Cleanup Program
SWF/LF.....	Permitted Solid Waste Disposal Facilities
UST.....	Underground Storage Tank Database

FEDERAL ASTM SUPPLEMENTAL

CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
Delisted NPL.....	National Priority List Deletions
FINDS.....	Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS.....	Hazardous Materials Information Reporting System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
NPL Liens.....	Federal Superfund Liens
PADS.....	PCB Activity Database System
RAATS.....	RCRA Administrative Action Tracking System
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
SSTS.....	Section 7 Tracking Systems
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST.....	Aboveground Storage Tanks
----------	---------------------------

EXECUTIVE SUMMARY

MN HWS Permit..... Active TSD Facilities
MN Deleted SHWS..... Permanent List of Priority Deletions
MN LCP..... Closed Landfills Priority List
MN LS..... List of Sites
MN Enforcement..... Generators Associated with Enforcement Logs
BULK..... Bulk Facilities Database
MN AGSPILLS..... Department of Agriculture Spills

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (*orphan*) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2001 has revealed that there is 1 ERNS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
POWER PLANT	POWER PLANT	1	3

STATE ASTM STANDARD

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Minnesota Pollution Control Agency's Leak Sites list.

A review of the LUST list, as provided by EDR, and dated 02/07/2002 has revealed that there is 1 LUST site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
LTV STEEL MINING COMPANY	TACONITE HARBOR POWER P	2	4

EXECUTIVE SUMMARY

STATE OR LOCAL ASTM SUPPLEMENTAL

MN SPILLS: This is the Minnesota Pollution Complaint Agency's Spills Log.

A review of the MN Spills list, as provided by EDR, has revealed that there are 5 MN Spills sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
LTV STEEL MINING COM	TACONITE HARBOR	2	3
LTV STEEL MINING CO	PO BOX 64 GA	2	3
LTV STEEL	TACONITE HARBOR POWER P	2	4
LTV STEEL	LAKE SUPERIOR	2	4
LTV STEEL	TACONITE HARBOR	2	5

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
 <u>FEDERAL ASTM STANDARD</u>	
NPL	0
Proposed NPL	0
CERCLIS	0
CERC-NFRAP	0
CORRACTS	0
RCRIS-TSD	0
RCRIS Lg. Quan. Gen.	0
RCRIS Sm. Quan. Gen.	0
ERNS	1
 <u>STATE ASTM STANDARD</u>	
State Haz. Waste	0
MN VIC	0
State Landfill	0
LUST	1
UST	0
 <u>FEDERAL ASTM SUPPLEMENTAL</u>	
CONSENT	0
ROD	0
Delisted NPL	0
FINDS	0
HMIRS	0
MLTS	0
MINES	0
NPL Liens	0
PADS	0
RAATS	0
TRIS	0
TSCA	0
SSTS	0
FTTS	0
 <u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>	
AST	0
MN Spills	5
MN HWS Permit	0
MN Deleted SHWS	0
MN LCP	0
MN LS	0
MN Enforcement	0
BULK	0
MN AGSPILLS	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>	
Coal Gas	0

* Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft)Site

EDR ID Number

Database(s) EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1	POWER PLANT POWER PLANT SCHROEDER, MN	ERNS 93311884 N/A
---	---	----------------------

2	LTV STEEL MINING COM TACONITE HARBOR SCHROEDER, MN 55613	MN Spills S101282157 N/A
---	--	-----------------------------

MN SPILLS:

Facility ID:	17011		
Reported By:	Not reported		
Spill Date:	Not reported		
Project Manager:			
Product:	FUEL OIL		
Incident Date:	Not reported		
Date Reported:	06/29/92		
Amount Spilled:	UNKN	Units:	Not reported
Priority:	Not reported	Action Taken:	Not reported
Incident:	Not reported		
Spill Cause:	SPILLAGE		
Location:	Not reported		
Region:	Not reported		
Spill:	Not reported		
Report:	Not reported		
Project Mngr:	Not reported		
Respnbl Party:	Not reported		
Description:	Not reported		
MN Pollution Control Agency:	Not reported		

2	LTV STEEL MINING CO PO BOX 64 GA SCHROEDER, MN	MN Spills U000884116 N/A
---	--	-----------------------------

MN SPILLS:

Facility ID:	23045		
Reported By:	RP		
Spill Date:	Not reported		
Project Manager:			
Product:	PETROLEUM PRODUCTS		
Incident Date:	Not reported		
Date Reported:	02/26/96		
Amount Spilled:	4	Units:	GALLONS
Priority:	LOW	Action Taken:	NO FILE, NO CONTACT WITH RP
Incident:	Not reported		
Spill Cause:	MF		
Location:	Not reported		
Region:	Not reported		
Spill:	Not reported		
Report:	Not reported		
Project Mngr:	RWK		
Respnbl Party:	Not reported		
Description:	Not reported		
MN Pollution Control Agency:	Not reported		

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

2 LTV STEEL
TACONITE HARBOR POWER PLA
SCHROEDER, MN 55613

MN Spills S101282158
N/A

MN SPILLS:

Facility ID: 16927
Reported By: Not reported
Spill Date: Not reported
Project Manager:
Product: FUEL OIL
Incident Date: Not reported
Date Reported: 10/21/92
Amount Spilled: 250.00
Priority: Not reported
Incident: Not reported
Spill Cause: AST OVERFILL
Location: Not reported
Region: Not reported
Spill: Not reported
Report: Not reported
Project Mngr: Not reported
Respnbl Party: Not reported
Description: Not reported
MN Pollution Control Agency: Not reported

Units: GALLONS
Action Taken: Not reported

2 LTV STEEL MINING COMPANY
TACONITE HARBOR POWER PLANT (SITE 11)
SCHROEDER, MN 55613

LUST S100545936
N/A

LUST:

Leak ID: 6500
MPCA ID: 142678
Report Date: 10/21/1992
Closed Date: 10/03/1997
Contact: Not reported
Contact Title: Not reported

2 LTV STEEL
LAKE SUPERIOR
SCHROEDER, MN 55613

MN Spills S101282160
N/A

MN SPILLS:

Facility ID: 17591
Reported By: Not reported
Spill Date: Not reported
Project Manager:
Product: TURBINE LUBE OIL
Incident Date: Not reported
Date Reported: 04/13/93
Amount Spilled: 1.00
Priority: Not reported
Incident: Not reported
Spill Cause: OIL SPILLED
Location: Not reported
Region: Not reported
Spill: Not reported
Report: Not reported
Project Mngr: Not reported
Respnbl Party: Not reported
Description: Not reported

Units: QUARTZ
Action Taken: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

LTV STEEL (Continued)

S101282160

MN Pollution Control Agency: Not reported

2

**LTV STEEL
TACONITE HARBOR
SCHROEDER, MN 55613**

**MN Spills S101282159
N/A**

MN SPILLS:

Facility ID: 17172
Reported By: Not reported
Spill Date: Not reported
Project Manager:
Product: ASKEREL, PCB'S
Incident Date: Not reported
Date Reported: 12/21/92
Amount Spilled: 1.00
Priority: Not reported
Incident: Not reported
Spill Cause: TRANSFORMER
Location: Not reported
Region: Not reported
Spill: Not reported
Report: Not reported
Project Mngr: Not reported
Respnbl Party: Not reported
Description: Not reported
MN Pollution Control Agency: Not reported

Units: PINTS
Action Taken: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BALSAM	U003852401	HIGHWAY 7 RIGHT OF WAY PROJECT	HWY 7 & 51-	55786	UST
FINLAND	1000867414	FINLAND AIR FORCE STATION	HWY 1	55603	RCRIS-SQG, FINDS, LUST
FINLAND	1004733030	CRYSTAL BAY TOWNSHIP GARAGE	HWY 1	55603	RCRIS-SQG
FINLAND	1004735473	FINLAND MOBILE	HWY 1	55603	RCRIS-SQG
FINLAND	U003851663	ZION LUTHERAN CHURCH	576 HWY 1	55603	UST
FINLAND	S102834565	APPOLLO BAR AND RESTAURANT	HWY 61	55603	LUST
FINLAND	1000466762	LAKE COUNTY HWY DEPT	4 AND ONE HALF MI N OF HWY 61	55603	RCRIS-SQG, FINDS
FINLAND	U000888041	FINLAND COOP CO	PO BOX E	55603	LUST, MN Spills, UST
FINLAND	U000888053	MN DNR - FORESTRY	PO BOX 495 - STATE HWY 1	55603	UST
FINLAND	1000384648	NELSON TRUCKING	COUNTY RD 7	55603	RCRIS-SQG, FINDS
FINLAND	S100545881	US AIR FORCE STATION	COUNTY RD 7	55603	LUST
FINLAND	U001623228	FORMER MOBIL STATION	W SIDE HWY #1	55603	UST
FINLAND	S100545880	FINLAND FORESTRY OFFICE	MN STATE HWY 1	55603	LUST
ILLGEN CITY	U000274668	ILLGEN CITY TRUCK STATION	HWY 61	55603	UST
LITTLE MARAIS	S100258791	FORMER AMOCO	HIGHWAY 61 EAST	55603	LUST
SCHROEDER	S104936732	SCHROEDER SHORTSTOP	HWY 61	55613	LUST
SCHROEDER	U000887372	SUGAR LOAF LANDING SITE	HWY 61	55613	UST, AST
SCHROEDER	1004740242	RAINY RIVER ENERGY CORP	8124 W HWY 61	55613	RCRIS-SQG
SCHROEDER	U003331439	SCHROEDER SHORT STOP	7902 WEST HWY #61	55613	UST
SCHROEDER	U003852172	CLIFFS ERIC LLC-TACONITE HARBOR	US HWY 61/PO BOX 64	55613	UST, AST
SCHROEDER	S103854769	TACONITE HARBOR ASH DISPOSAL F	1/2 MI NW OF HWY 61	55613	MN LS
SCHROEDER	U003852397	FORMER SERVICE STATION	W OF CROSS RIVER & HWY 61 S	55613	UST
TACONITE	S102834677	RHUNDE MEDIA	S HWY 169	55786	LUST
TACONITE	S100711793	IRON RANGE SANITARY LANDFILL	1 1/2 MI N OF INT HWY 169 AND CO RD 7	55786	MN LS
TACONITE	S103314628	TACONITE III DUMP	IN TACONITE 1/2 MILE WEST OF US 169 ON	55786	MN LS
WALES	U000888029	AT&T RADIO TOWER	HWY 14 - 2 1/2 MI W OF HWY 12	55603	UST

Wrong
Town.

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

HIGHWAY 7 RIGHT OF WAY PROJECT
HWY 7 & 51-
BALSAM, MN 55786

UST U003852401
N/A

UST:

Program Interest Id :	129188
Address Id :	204833
MPCA Tank Number :	001
Above/ Under Ground :	Under Ground
Piping Cathodic Protection :	None
Tank Cathodic Protection :	None
Tank Stored Product :	Other Substance
Client Tank Number :	001
AST Base Material :	Not reported
Piping Material :	Steel/Iron
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	1
Tank Status Code :	Removed
Tank Storage Capacity :	Not reported
Tank Registration Date :	05/15/1995 00:00:00
Unregulated Tank Registration Date :	05/11/1995 00:00:00
Compartmental Tank Flag :	Not reported
Heating Product Flag :	N
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	RDULLIN
Complaint Flag :	No

The UST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

FINLAND AIR FORCE STATION
HWY 1
FINLAND, MN 55603

RCRIS-SQG 1000867414
FINDS MN7210890565
LUST

RCRIS:

Owner:	US ARMY CORPS OF ENGINEERS (612) 452-2505
EPA ID:	MN7210890565
Contact:	MARK PASCHKE (612) 452-2505

Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

LUST:

Leak ID:	10659
MPCA ID:	146630
Report Date:	08/13/1997

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
FINLAND AIR FORCE STATION (Continued)		1000867414
Closed Date: / / Contact: Not reported Contact Title: Not reported		
CRYSTAL BAY TOWNSHIP GARAGE HWY 1 FINLAND, MN 55603	RCRIS-SQG	1004733030 MND985738434
RCRIS: Owner: CRYSTAL BAY TOWNSHIP (218) 353-7338 EPA ID: MND985738434 Contact: STEVEN HOULE (218) 353-7338 Classification: Small Quantity Generator Used Oil Recyc: No TSDF Activities: Not reported Violation Status: No violations found		
FINLAND MOBILE HWY 1 FINLAND, MN 55603	RCRIS-SQG	1004735473 MNR000007096
RCRIS: Owner: JOHNSON BARRY (218) 353-7791 EPA ID: MNR000007096 Contact: BARRY JOHNSON (218) 353-7791 Classification: Small Quantity Generator Used Oil Recyc: No TSDF Activities: Not reported Violation Status: No violations found		
ZION LUTHERAN CHURCH 576 HWY 1 FINLAND, MN 55603	UST	U003851663 N/A
UST: Program Interest Id : 120038 Address Id : 182827 MPCA Tank Number : 001 Above/ Under Ground : Under Ground Piping Cathodic Protection : None Tank Cathodic Protection : None Tank Stored Product : Fuel Oil Client Tank Number : 001 AST Base Material : Not reported Piping Material : Other Second Contain Tank : Not reported Second Contain Pipe : Not reported Tank Construction Material : Bare/Paint/Asph Coat Steel		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

ZION LUTHERAN CHURCH (Continued)

U003851663

Tank Dispenser Code :	2
Tank Status Code :	Active
Tank Storage Capacity :	2000
Tank Registration Date :	06/03/1986 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Y
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
Complaint Flag :	Yes
Program Interest Id :	120038
Address Id :	182827
MPCA Tank Number :	002
Above/ Under Ground :	Under Ground
Piping Cathodic Protection :	None
Tank Cathodic Protection :	None
Tank Stored Product :	Fuel Oil
Client Tank Number :	002
AST Base Material :	Not reported
Piping Material :	Other
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Active
Tank Storage Capacity :	500
Tank Registration Date :	06/03/1986 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Y
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
Complaint Flag :	Yes

The UST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

APPOLLO BAR AND RESTAURANT
HWY 61
FINLAND, MN 55603

LUST S102834565
N/A

LUST:

Leak ID:	10765
MPCA ID:	146735
Report Date:	08/06/1997
Closed Date:	08/18/1999
Contact:	Not reported
Contact Title:	Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

LAKE COUNTY HWY DEPT
4 AND ONE HALF MI N OF HWY 61
FINLAND, MN 55603

RCRIS-SQG 1000466762
FINDS MND985700301

RCRIS:

Owner: LAKE COUNTY HWY DEPT
EPA ID: MND985700301
Contact: PHILLIP HOULE
(218) 353-7306

Classification: Small Quantity Generator
Used Oil Recyc: No
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Facility Registry System (FRS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

FINLAND COOP CO
PO BOX E
FINLAND, MN 55603

LUST U000888041
MN Spills N/A
UST

LUST:

Leak ID: 6245
MPCA ID: 142429
Report Date: 04/27/1993
Closed Date: 05/07/1999
Contact: Not reported
Contact Title: Owner

Leak ID: 6245
MPCA ID: 142429
Report Date: 04/27/1993
Closed Date: 05/07/1999
Contact: DARWN CHURCH
Contact Title: Responsible Party

MN SPILLS:

Facility ID: 27002
Reported By: Not reported
Spill Date: Not reported

Project Manager:
Product: GASOLINE
Incident Date: Not reported
Date Reported: 28-Nov-97
Amount Spilled: 15

Priority: NO
Incident: CAME OUT OF VAPOR RECOVERY TUBE OF TRUCK
Spill Cause: EQUIPMENT FAILURE
Location: RURAL
Region: Not reported
Spill: Not reported
Report: Not reported
Project Mngr: Not reported
Respnbl Party: Not reported
Description: Not reported
MN Pollution Control Agency: RWK

Units: Not reported
Action Taken: NO FILE, NO CONTACT WITH RP

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
FINLAND COOP CO (Continued)		U000888041
UST:		
Program Interest Id :	120023	
Address Id :	176392	
MPCA Tank Number :	002	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	None	
Tank Stored Product :	Gasoline	
Client Tank Number :	002	
AST Base Material :	Not reported	
Piping Material :	Galvanized steel	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	2	
Tank Status Code :	Removed	
Tank Storage Capacity :	10000	
Tank Registration Date :	12/05/1986 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	U	
Haz Waste Generator Id :	MND071790729	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	KLEESPIE TANK	
Comments :	Not reported	
Staff Id Who Did The Last Update :	RDULLIN	
Complaint Flag :	No	
Program Interest Id :	120023	
Address Id :	176392	
MPCA Tank Number :	003	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	Anode	
Tank Cathodic Protection :	Anode	
Tank Stored Product :	Gasoline	
Client Tank Number :	003	
AST Base Material :	Not reported	
Piping Material :	Coated Steel	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	STI-P3	
Tank Dispenser Code :	2	
Tank Status Code :	Active	
Tank Storage Capacity :	12000	
Tank Registration Date :	05/10/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	N	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	TANKS	
Complaint Flag :	Yes	
Program Interest Id :	120023	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

FINLAND COOP CO (Continued)

U000888041

Address Id : 176392
MPCA Tank Number : 001
Above/ Under Ground : Under Ground
Piping Cathodic Protection : None
Tank Cathodic Protection : None
Tank Stored Product : Gasoline
Client Tank Number : 001
AST Base Material : Not reported
Piping Material : Galvanized steel
Second Contain Tank : Not reported
Second Contain Pipe : Not reported
Tank Construction Material : Bare/Paint/Asph Coat Steel
Tank Dispenser Code : 2
Tank Status Code : Removed
Tank Storage Capacity : 4000
Tank Registration Date : 12/05/1986 00:00:00
Unregulated Tank Registration Date : Not reported
Compartmental Tank Flag : Not reported
Heating Product Flag : U
Haz Waste Generator Id : MND071790729
Product Replaced Date : Not reported
Sludge Disposal Facility : KLEESPIE TANK
Comments : Not reported
Staff Id Who Did The Last Update : RDULLIN
Complaint Flag : No

The UST database contains additional data for this site
Please contact your EDR Account Executive for more information.

MN DNR - FORESTRY
PO BOX 495 - STATE HWY 1
FINLAND, MN 55603

UST U000888053
N/A

UST

Program Interest Id : 120045
Address Id : 195888
MPCA Tank Number : 001
Above/ Under Ground : Under Ground
Piping Cathodic Protection : None
Tank Cathodic Protection : None
Tank Stored Product : Gasoline
Client Tank Number : 001
AST Base Material : Not reported
Piping Material : Steel/Iron
Second Contain Tank : Not reported
Second Contain Pipe : Not reported
Tank Construction Material : Bare/Paint/Asph Coat Steel
Tank Dispenser Code : 2
Tank Status Code : Removed
Tank Storage Capacity : 325
Tank Registration Date : 03/17/1986 00:00:00
Unregulated Tank Registration Date : Not reported
Compartmental Tank Flag : Not reported
Heating Product Flag : U
Haz Waste Generator Id : MND985742782
Product Replaced Date : Not reported
Sludge Disposal Facility : JERRY'S UNDERGROUND
Comments : Not reported
Staff Id Who Did The Last Update : RDULLIN

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
<hr/>		
MN DNR - FORESTRY (Continued)		U000888053
Complaint Flag : No		
The UST database contains additional data for this site. Please contact your EDR Account Executive for more information.		
<hr/>		
NELSON TRUCKING COUNTY RD 7 FINLAND, MN 55603	RCRIS-SQG FINDS	1000384648 MND981787716
RCRIS:		
Owner: NELSON CLAIR (312) 555-1212		
EPA ID: MND981787716		
Contact: CLAIR NELSON (218) 353-7385		
Classification: Small Quantity Generator		
Used Oil Recyc: No		
TSDf Activities: Not reported		
Violation Status: No violations found		
FINDS:		
Other Pertinent Environmental Activity Identified at Site:		
Facility Registry System (FRS)		
Resource Conservation and Recovery Act Information system (RCRAINFO)		
<hr/>		
US AIR FORCE STATION COUNTY RD 7 FINLAND, MN 55603	LUST	S100545881 N/A
LUST:		
Leak ID: 6416		
MPCA ID: 142595		
Report Date: 06/15/1993		
Closed Date: 12/15/1994		
Contact: Not reported		
Contact Title: Not reported		
<hr/>		
FORMER MOBIL STATION W SIDE HWY #1 FINLAND, MN 55603	UST	U001623228 N/A
UST:		
Program Interest Id : 128465		
Address Id : 204123		
MPCA Tank Number : 002		
Above/ Under Ground : Under Ground		
Piping Cathodic Protection : None		
Tank Cathodic Protection : None		
Tank Stored Product : Gasoline		
Client Tank Number : 002		
AST Base Material : Not reported		
Piping Material : Steel/Iron		
Second Contain Tank : Not reported		
Second Contain Pipe : Not reported		
Tank Construction Material : Bare/Paint/Asph Coat Steel		
Tank Dispenser Code : 1		

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
FORMER MOBIL STATION (Continued)		U001623228
Tank Status Code :	Removed	
Tank Storage Capacity :	1000	
Tank Registration Date :	09/29/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	N	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	RDULLIN	
Complaint Flag :	No	
Program Interest Id :	128465	
Address Id :	204123	
MPCA Tank Number :	001	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	None	
Tank Stored Product :	Used Or Waste Oil	
Client Tank Number :	001	
AST Base Material :	Not reported	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	3	
Tank Status Code :	Removed	
Tank Storage Capacity :	500	
Tank Registration Date :	09/29/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	N	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	RDULLIN	
Complaint Flag :	No	
Program Interest Id :	128465	
Address Id :	204123	
MPCA Tank Number :	003	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	None	
Tank Stored Product :	Gasoline	
Client Tank Number :	003	
AST Base Material :	Not reported	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	1	
Tank Status Code :	Removed	
Tank Storage Capacity :	1000	
Tank Registration Date :	09/29/1993 00:00:00	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

FORMER MOBIL STATION (Continued)

U001623228

Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	N
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	RDULLIN
Complaint Flag :	No

The UST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

FINLAND FORESTRY OFFICE MN STATE HWY 1 FINLAND, MN 55603

LUST S100545880
N/A

LUST:

Leak ID:	6569
MPCA ID:	142746
Report Date:	06/10/1993
Closed Date:	11/07/1995
Contact:	Not reported
Contact Title:	Not reported

ILLGEN CITY TRUCK STATION HWY 61 ILLGEN CITY, MN 55603

UST U000274668
N/A

UST:

Program Interest Id :	120042
Address Id :	207782
MPCA Tank Number :	NC2
Above/ Under Ground :	Under Ground
Piping Cathodic Protection :	None
Tank Cathodic Protection :	None
Tank Stored Product :	Diesel
Client Tank Number :	NC2
AST Base Material :	Not reported
Piping Material :	Galvanized steel
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Removed
Tank Storage Capacity :	1500
Tank Registration Date :	01/02/1986 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	U
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	RDULLIN
Complaint Flag :	No

Program Interest Id :	120042
-----------------------	--------

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
ILLGEN CITY TRUCK STATION (Continued)		U000274668
Address Id :	207782	
MPCA Tank Number :	PA2	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	Anode	
Tank Stored Product :	Diesel	
Client Tank Number :	PA2	
AST Base Material :	Not reported	
Piping Material :	Wrapped Steel	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	2	
Tank Status Code :	Removed	
Tank Storage Capacity :	2000	
Tank Registration Date :	07/09/1987 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	U	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	TANKS	
Complaint Flag :	Yes	
Program Interest Id :	120042	
Address Id :	207782	
MPCA Tank Number :	NE2	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	None	
Tank Stored Product :	Used Or Waste Oil	
Client Tank Number :	NE2	
AST Base Material :	Not reported	
Piping Material :	Galvanized steel	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	2	
Tank Status Code :	Removed	
Tank Storage Capacity :	500	
Tank Registration Date :	01/02/1986 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	U	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	RDULLIN	
Complaint Flag :	No	
Program Interest Id :	120042	
Address Id :	207782	
MPCA Tank Number :	NA2	
Above/ Under Ground :	Under Ground	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

ILLGEN CITY TRUCK STATION (Continued)

U000274668

Piping Cathodic Protection :	None
Tank Cathodic Protection :	None
Tank Stored Product :	Gasoline
Client Tank Number :	NA2
AST Base Material :	Not reported
Piping Material :	Galvanized steel
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Removed
Tank Storage Capacity :	3000
Tank Registration Date :	01/02/1986 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	U
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	RDULLIN
Complaint Flag :	No

Program Interest Id :	120042
Address Id :	207782
MPCA Tank Number :	ND2
Above/ Under Ground :	Under Ground
Piping Cathodic Protection :	None
Tank Cathodic Protection :	None
Tank Stored Product :	Fuel Oil
Client Tank Number :	ND2
AST Base Material :	Not reported
Piping Material :	Galvanized steel
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Removed
Tank Storage Capacity :	1500
Tank Registration Date :	01/02/1986 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Y
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
Complaint Flag :	Yes

The UST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
FORMER AMOCO HIGHWAY 61 EAST LITTLE MARAIS, MN 55603 LUST. Leak ID: 5005 MPCA ID: 141229 Report Date: 08/06/1991 Closed Date: 01/27/2000 Contact: Not reported Contact Title: Not reported	LUST	S100258791 N/A
SCHROEDER SHORTSTOP HWY 61 SCHROEDER, MN 55613 LUST: Leak ID: 13715 MPCA ID: 155869 Report Date: 06/30/2000 Closed Date: / / Contact: Not reported Contact Title: Not reported	LUST	S104936732 N/A
SUGAR LOAF LANDING SITE HWY 61 SCHROEDER, MN 55613 UST: Program Interest Id : 118753 Address Id : 194623 MPCA Tank Number : T01 Above/ Under Ground : Under Ground Piping Cathodic Protection : None Tank Cathodic Protection : None Tank Stored Product : Diesel Client Tank Number : T01 AST Base Material : Not reported Piping Material : Galvanized steel Second Contain Tank : Not reported Second Contain Pipe : Not reported Tank Construction Material : Bare/Paint/Asph Coat Steel Tank Dispenser Code : 2 Tank Status Code : Removed Tank Storage Capacity : 1000 Tank Registration Date : 05/02/1986 00:00:00 Unregulated Tank Registration Date : Not reported Compartmental Tank Flag : Not reported Heating Product Flag : U Haz Waste Generator Id : Not reported Product Replaced Date : Not reported Sludge Disposal Facility : Not reported Comments : Not reported Staff Id Who Did The Last Update : RDULLIN Complaint Flag : No Program Interest Id : 118753 Address Id : 194623 MPCA Tank Number : T02 Above/ Under Ground : Under Ground	UST AST	U000887372 N/A

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

SUGAR LOAF LANDING SITE (Continued)

U000887372

Piping Cathodic Protection :	None
Tank Cathodic Protection :	None
Tank Stored Product :	Fuel Oil
Client Tank Number :	T02
AST Base Material :	Not reported
Piping Material :	Galvanized steel
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Removed
Tank Storage Capacity :	1000
Tank Registration Date :	05/02/1986 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Y
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
Complaint Flag :	Yes

The UST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

AST:

Program Interest Id :	118753
Address Id :	194623
MPCA Tank Number :	1001
Above/ Under Ground :	Above Ground
Piping Cathodic Protection :	Not reported
Tank Cathodic Protection :	Not reported
Tank Stored Product :	Other Substance
Client Tank Number :	Not reported
AST Base Material :	On Ground
Piping Material :	None
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Metal
Tank Dispenser Code :	Not reported
Tank Status Code :	Removed
Tank Storage Capacity :	2000
Tank Registration Date :	09/19/1991 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Not reported
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
Complaint Flag :	Not reported

The AST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

RAINY RIVER ENERGY CORP
8124 W HWY 61
SCHROEDER, MN 55613

RCRIS-SQG 1004740242
MNR000108324

RCRIS:

Owner: RAINY RIVER ENERGY CORP
(218) 722-2641
EPA ID: MNR000108324
Contact: DANIEL CROKE
(218) 722-2641

Classification: Small Quantity Generator
Used Oil Recyc: Yes
TSDF Activities: Not reported
Violation Status: No violations found

SCHROEDER SHORT STOP
7902 WEST HWY #61
SCHROEDER, MN 55613

UST U003331439
N/A

UST:

Program Interest Id : 130250
Address Id : 205874
MPCA Tank Number : 002
Above/ Under Ground : Under Ground
Piping Cathodic Protection : None
Tank Cathodic Protection : Anode
Tank Stored Product : Gasoline
Client Tank Number : 002
AST Base Material : Not reported
Piping Material : Galvanized steel
Second Contain Tank : Not reported
Second Contain Pipe : Not reported
Tank Construction Material : STI-P3
Tank Dispenser Code : 1
Tank Status Code : Removed
Tank Storage Capacity : 8000
Tank Registration Date : 10/30/1997 00:00:00
Unregulated Tank Registration Date : Not reported
Compartmental Tank Flag : Not reported
Heating Product Flag : N
Haz Waste Generator Id : MND985745389
Product Replaced Date : Not reported
Sludge Disposal Facility : Not reported
Comments : Not reported
Staff Id Who Did The Last Update : TANKS
Complaint Flag : Yes

Program Interest Id : 130250
Address Id : 205874
MPCA Tank Number : 001
Above/ Under Ground : Under Ground
Piping Cathodic Protection : None
Tank Cathodic Protection : Anode
Tank Stored Product : Gasoline
Client Tank Number : 001
AST Base Material : Not reported
Piping Material : Galvanized steel
Second Contain Tank : Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

SCHROEDER SHORT STOP (Continued)

U003331439

Second Contain Pipe : Not reported
 Tank Construction Material : STI-P3
 Tank Dispenser Code : 1
 Tank Status Code : Removed
 Tank Storage Capacity : 8000
 Tank Registration Date : 10/30/1997 00:00:00
 Unregulated Tank Registration Date : Not reported
 Compartmental Tank Flag : Not reported
 Heating Product Flag : N
 Haz Waste Generator Id : MND985745389
 Product Replaced Date : Not reported
 Sludge Disposal Facility : Not reported
 Comments : Not reported
 Staff Id Who Did The Last Update : TANKS
 Complaint Flag : Yes

Program Interest Id : 130250
 Address Id : 205874
 MPCA Tank Number : 003
 Above/ Under Ground : Under Ground
 Piping Cathodic Protection : None
 Tank Cathodic Protection : Anode
 Tank Stored Product : Diesel
 Client Tank Number : 003
 AST Base Material : Not reported
 Piping Material : Galvanized steel
 Second Contain Tank : Not reported
 Second Contain Pipe : Not reported
 Tank Construction Material : STI-P3
 Tank Dispenser Code : 1
 Tank Status Code : Removed
 Tank Storage Capacity : 4000
 Tank Registration Date : 10/30/1997 00:00:00
 Unregulated Tank Registration Date : Not reported
 Compartmental Tank Flag : Not reported
 Heating Product Flag : N
 Haz Waste Generator Id : MND985745389
 Product Replaced Date : Not reported
 Sludge Disposal Facility : Not reported
 Comments : Not reported
 Staff Id Who Did The Last Update : TANKS
 Complaint Flag : Yes

The UST database contains additional data for this site.
 Please contact your EDR Account Executive for more information.

CLIFFS ERIC LLC-TACONITE HARBOR
 US HWY 61/PO BOX 64
 SCHROEDER, MN 55613

UST U003852172
 AST N/A

UST:

Program Interest Id : 126633
 Address Id : 210814
 MPCA Tank Number : 112
 Above/ Under Ground : Under Ground
 Piping Cathodic Protection : None
 Tank Cathodic Protection : None
 Tank Stored Product : Gasoline
 Client Tank Number : 112

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
AST Base Material :	Not reported	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	2	
Tank Status Code :	Removed	
Tank Storage Capacity :	1000	
Tank Registration Date :	06/19/1991 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	U	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	RDULLIN	
Complaint Flag :	No	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	070	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	None	
Tank Stored Product :	Diesel	
Client Tank Number :	070	
AST Base Material :	Not reported	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	2	
Tank Status Code :	Removed	
Tank Storage Capacity :	1500	
Tank Registration Date :	06/19/1991 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	U	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	RDULLIN	
Complaint Flag :	No	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	069	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	None	
Tank Stored Product :	Diesel	
Client Tank Number :	069	
AST Base Material :	Not reported	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

CLIFFS ERIC LLC-TACONITE HARBOR (Continued)

U003852172

Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Removed
Tank Storage Capacity :	1000
Tank Registration Date :	06/19/1991 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	U
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	RDULLIN
Complaint Flag :	No

The UST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

AST:

Program Interest Id :	126633
Address Id :	210814
MPCA Tank Number :	1123
Above/ Under Ground :	Above Ground
Piping Cathodic Protection :	Not reported
Tank Cathodic Protection :	Not reported
Tank Stored Product :	Used Or Waste Oil
Client Tank Number :	123
AST Base Material :	On Concrete
Piping Material :	Steel/Iron
Second Contain Tank :	Doublewall Tank
Second Contain Pipe :	Not reported
Tank Construction Material :	Metal
Tank Dispenser Code :	Not reported
Tank Status Code :	Active
Tank Storage Capacity :	1000
Tank Registration Date :	03/18/1993 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Not reported
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	JHENRY
Complaint Flag :	Not reported

Program Interest Id :	126633
Address Id :	210814
MPCA Tank Number :	1321
Above/ Under Ground :	Above Ground
Piping Cathodic Protection :	Not reported
Tank Cathodic Protection :	Not reported
Tank Stored Product :	Petroleum Other
Client Tank Number :	321
AST Base Material :	On Concrete
Piping Material :	Steel/Iron
Second Contain Tank :	Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	5000	
Tank Registration Date :	03/18/1993 00:00.00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1094	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	094	
AST Base Material :	On Ground	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	10000	
Tank Registration Date :	03/18/1993 00:00.00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1071	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	071	
AST Base Material :	Double Bottom Base	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	PVC/Fiberglass/Synth/Rubber	
Tank Dispenser Code :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
Tank Status Code :	Removed	
Tank Storage Capacity :	10000	
Tank Registration Date :	03/18/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1072	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	072	
AST Base Material :	On Concrete	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	61000	
Tank Registration Date :	03/18/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1320	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Petroleum Other	
Client Tank Number :	320	
AST Base Material :	On Concrete	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	5000	
Tank Registration Date :	03/18/1993 00:00:00	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1023	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Used Or Waste Oil	
Client Tank Number :	023	
AST Base Material :	On Ground	
Piping Material :	Steel/Iron	
Second Contain Tank :	Doublewall Tank	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	500	
Tank Registration Date :	03/18/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1022	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	022	
AST Base Material :	On Concrete	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	120	
Tank Registration Date :	03/18/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1323	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	323	
AST Base Material :	On Concrete	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	10000	
Tank Registration Date :	03/18/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1324	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	324	
AST Base Material :	On Concrete	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	10000	
Tank Registration Date :	03/18/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1325	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	325	
AST Base Material :	On Concrete	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	10000	
Tank Registration Date :	03/18/1993 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1067	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	067	
AST Base Material :	On Ground	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Metal	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Removed	
Tank Storage Capacity :	1680000	
Tank Registration Date :	Not reported	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

CLIFFS ERIC LLC-TACONITE HARBOR (Continued)

U003852172

Program Interest Id :	126633
Address Id :	210814
MPCA Tank Number :	1068
Above/ Under Ground :	Above Ground
Piping Cathodic Protection :	Not reported
Tank Cathodic Protection :	Not reported
Tank Stored Product :	Fuel Oil
Client Tank Number :	068
AST Base Material :	On Ground
Piping Material :	Steel/Iron
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Metal
Tank Dispenser Code :	Not reported
Tank Status Code :	Removed
Tank Storage Capacity :	3360000
Tank Registration Date :	Not reported
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Not reported
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	JHENRY
Complaint Flag :	Not reported

Program Interest Id :	126633
Address Id :	210814
MPCA Tank Number :	1093
Above/ Under Ground :	Above Ground
Piping Cathodic Protection :	Not reported
Tank Cathodic Protection :	Not reported
Tank Stored Product :	Fuel Oil
Client Tank Number :	093
AST Base Material :	On Ground
Piping Material :	Steel/Iron
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Metal
Tank Dispenser Code :	Not reported
Tank Status Code :	Removed
Tank Storage Capacity :	179970
Tank Registration Date :	Not reported
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Not reported
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	JHENRY
Complaint Flag :	Not reported

Program Interest Id :	126633
Address Id :	210814

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
MPCA Tank Number :	1010	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Gasoline	
Client Tank Number :	Not reported	
AST Base Material :	Concrete Slab	
Piping Material :	Steel/Iron	
Second Contain Tank :	Doublewall Tank	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	500	
Tank Registration Date :	11/29/2001 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1007	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Fuel Oil	
Client Tank Number :	Not reported	
AST Base Material :	Concrete Slab	
Piping Material :	Steel/Iron	
Second Contain Tank :	Doublewall Tank	
Second Contain Pipe :	None	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	335	
Tank Registration Date :	11/29/2001 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1012	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Petroleum Other	
Client Tank Number :	Not reported	
AST Base Material :	Concrete Slab	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	190	
Tank Registration Date :	11/29/2001 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1013	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Transmission Fluid	
Client Tank Number :	Not reported	
AST Base Material :	Concrete Slab	
Piping Material :	Not reported	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	190	
Tank Registration Date :	11/29/2001 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1014	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Motor Oil	
Client Tank Number :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
CLIFFS ERIC LLC-TACONITE HARBOR (Continued)		U003852172
AST Base Material :	Concrete Slab	
Piping Material :	Not reported	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	190	
Tank Registration Date :	11/29/2001 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1015	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Motor Oil	
Client Tank Number :	Not reported	
AST Base Material :	Concrete Slab	
Piping Material :	Not reported	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	Not reported	
Tank Status Code :	Active	
Tank Storage Capacity :	190	
Tank Registration Date :	11/29/2001 00:00:00	
Unregulated Tank Registration Date :	Not reported	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Not reported	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	JHENRY	
Complaint Flag :	Not reported	
Program Interest Id :	126633	
Address Id :	210814	
MPCA Tank Number :	1016	
Above/ Under Ground :	Above Ground	
Piping Cathodic Protection :	Not reported	
Tank Cathodic Protection :	Not reported	
Tank Stored Product :	Motor Oil	
Client Tank Number :	Not reported	
AST Base Material :	Concrete Slab	
Piping Material :	Not reported	
Second Contain Tank :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

CLIFFS ERIC LLC-TACONITE HARBOR (Continued)

U003852172

Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	Not reported
Tank Status Code :	Active
Tank Storage Capacity :	190
Tank Registration Date :	11/29/2001 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Not reported
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	JHENRY
Complaint Flag :	Not reported

The AST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

TACONITE HARBOR ASH DISPOSAL F 1/2 MI NW OF HWY 61 SCHROEDER, MN 55613

MN LS S103854769
N/A

MN LS:

CERCLIS:	No
No Further Remedial Action Planned:	No
National Priorities List:	No
Delisted From PLP By MPCA:	No
Solid Waste Permit:	Yes
Open Dump Inventory:	No
Voluntary Cleanup & Investigation:	No
HWIC:	No
RCRA Treatment Storage & Disposal:	No
METRO Dump Inventory:	No
Hazardous Waste Permit:	No
EPA ID:	Not reported
No Further Action:	No
Entity Type:	SWPERM
Method:	I1
MPCA ID:	MNSW00000411
County Code:	16
PLP:	No
Facility Name 2:	Not reported
Link ID:	3750
LCP:	N
Brown:	N

FORMER SERVICE STATION W OF CROSS RIVER & HWY 61 S SCHROEDER, MN 55613

UST U003852397
N/A

UST:

Program Interest Id :	129180
Address Id :	204825
MPCA Tank Number :	005
Above/ Under Ground :	Under Ground
Piping Cathodic Protection :	None
Tank Cathodic Protection :	None

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
FORMER SERVICE STATION (Continued)		U003852397
Tank Stored Product :	Fuel Oil	
Client Tank Number :	005	
AST Base Material :	Not reported	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	1	
Tank Status Code :	Removed	
Tank Storage Capacity :	Not reported	
Tank Registration Date :	06/15/1995 00:00:00	
Unregulated Tank Registration Date :	04/23/1995 00:00:00	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	Y	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	TANKS	
Complaint Flag :	Yes	
Program Interest Id :	129180	
Address Id :	204825	
MPCA Tank Number :	003	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	None	
Tank Stored Product :	Gasoline	
Client Tank Number :	003	
AST Base Material :	Not reported	
Piping Material :	Steel/Iron	
Second Contain Tank :	Not reported	
Second Contain Pipe :	Not reported	
Tank Construction Material :	Bare/Paint/Asph Coat Steel	
Tank Dispenser Code :	1	
Tank Status Code :	Closed In-Place	
Tank Storage Capacity :	Not reported	
Tank Registration Date :	06/15/1995 00:00:00	
Unregulated Tank Registration Date :	04/23/1995 00:00:00	
Compartmental Tank Flag :	Not reported	
Heating Product Flag :	N	
Haz Waste Generator Id :	Not reported	
Product Replaced Date :	Not reported	
Sludge Disposal Facility :	Not reported	
Comments :	Not reported	
Staff Id Who Did The Last Update :	RDULLIN	
Complaint Flag :	No	
Program Interest Id :	129180	
Address Id :	204825	
MPCA Tank Number :	002	
Above/ Under Ground :	Under Ground	
Piping Cathodic Protection :	None	
Tank Cathodic Protection :	None	
Tank Stored Product :	Gasoline	
Client Tank Number :	002	
AST Base Material :	Not reported	

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

FORMER SERVICE STATION (Continued)

U003852397

Piping Material :	Steel/Iron
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	1
Tank Status Code :	Closed In-Place
Tank Storage Capacity :	Not reported
Tank Registration Date :	06/15/1995 00:00:00
Unregulated Tank Registration Date :	04/23/1995 00:00:00
Compartmental Tank Flag :	Not reported
Heating Product Flag :	N
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	RDULLIN
Complaint Flag :	No

Program Interest Id :	129180
Address Id :	204825
MPCA Tank Number :	004
Above/ Under Ground :	Under Ground
Piping Cathodic Protection :	None
Tank Cathodic Protection :	None
Tank Stored Product :	Used Or Waste Oil
Client Tank Number :	004
AST Base Material :	Not reported
Piping Material :	Steel/Iron
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	1
Tank Status Code :	Removed
Tank Storage Capacity :	Not reported
Tank Registration Date :	06/15/1995 00:00:00
Unregulated Tank Registration Date :	04/23/1995 00:00:00
Compartmental Tank Flag :	Not reported
Heating Product Flag :	N
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	RDULLIN
Complaint Flag :	No

Program Interest Id :	129180
Address Id :	204825
MPCA Tank Number :	001
Above/ Under Ground :	Under Ground
Piping Cathodic Protection :	None
Tank Cathodic Protection :	None
Tank Stored Product :	Gasoline
Client Tank Number :	001
AST Base Material :	Not reported
Piping Material :	Steel/Iron
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

FORMER SERVICE STATION (Continued)

U003852397

Tank Construction Material : Bare/Paint/Asph Coat Steel
 Tank Dispenser Code : 1
 Tank Status Code : Closed In-Place
 Tank Storage Capacity : Not reported
 Tank Registration Date : 06/15/1995 00:00:00
 Unregulated Tank Registration Date : 04/23/1995 00:00:00
 Compartmental Tank Flag : Not reported
 Heating Product Flag : N
 Haz Waste Generator Id : Not reported
 Product Replaced Date : Not reported
 Sludge Disposal Facility : Not reported
 Comments : Not reported
 Staff Id Who Did The Last Update : RDULLIN
 Complaint Flag : No

The UST database contains additional data for this site
 Please contact your EDR Account Executive for more information.

RHUNDE MEDIA
S HWY 169
TACONITE, MN 55786

LUST S102834677
N/A

LUST:

Leak ID: 10941
 MPCA ID: 146907
 Report Date: 11/06/1997
 Closed Date: 12/31/1997
 Contact: Not reported
 Contact Title: Not reported

IRON RANGE SANITARY LANDFILL
1 1/2 MI N OF INT HWY 169 AND CO RD 7
TACONITE, MN 55786

MN LS S100711793
N/A

MN LS:

CERCLIS: No
 No Further Remedial Action Planned: No
 National Priorities List: No
 Delisted From PLP By MPCA: No
 Solid Waste Permit: Yes
 Open Dump Inventory: Yes
 Voluntary Cleanup & Investigation: No
 HWIC: No
 RCRA Treatment Storage & Disposal: No
 METRO Dump Inventory: No
 Hazardous Waste Permit: No
 EPA ID: Not reported
 No Further Action: No
 Entity Type: SWPERM
 Method: I1
 MPCA ID: MNSW00000073
 County Code: 31
 PLP: No
 Facility Name 2: Not reported
 Link ID: 1159
 LCP: Y
 Brown: N

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

**TACONITE III DUMP
IN TACONITE 1/2 MILE WEST OF US 169 ON
TACONITE, MN 55786**

**MN LS S103314628
N/A**

MN LS:

CERCLIS:	No
No Further Remedial Action Planned:	No
National Priorities List:	No
Delisted From PLP By MPCA:	No
Solid Waste Permit:	No
Open Dump Inventory:	Yes
Voluntary Cleanup & Investigation:	No
HWIC:	No
RCRA Treatment Storage & Disposal:	No
METRO Dump Inventory:	No
Hazardous Waste Permit:	No
EPA ID:	Not reported
No Further Action:	No
Entity Type:	ODI
Method:	I1
MPCA ID:	MNODI0000481
County Code:	31
PLP:	No
Facility Name 2:	Not reported
Link ID:	1824
LCP:	N
Brown:	N

**AT&T RADIO TOWER
HWY 14 - 2 1/2 MI W OF HWY 12
WALES, MN 55603**

**UST U000888029
N/A**

UST

Program Interest Id :	120005
Address Id :	195849
MPCA Tank Number :	001
Above/ Under Ground :	Under Ground
Piping Cathodic Protection :	None
Tank Cathodic Protection :	Anode
Tank Stored Product :	Fuel Oil
Client Tank Number :	001
AST Base Material :	Not reported
Piping Material :	Other
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Removed
Tank Storage Capacity :	3000
Tank Registration Date :	01/28/1987 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Y
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
Complaint Flag :	Yes

DETAILED ORPHAN LISTING

Site	Database(s)	EDR ID Number EPA ID Number
AT&T RADIO TOWER (Continued)		U000888029

The UST database contains additional data for this site.
Please contact your EDR Account Executive for more information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/22/02

Date Made Active at EDR: 06/21/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02

Elapsed ASTM days: 46

Date of Last EDR Contact: 05/06/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 02/26/02

Date Made Active at EDR: 06/21/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02

Elapsed ASTM days: 46

Date of Last EDR Contact: 05/06/02

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/12/02

Date Made Active at EDR: 06/03/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02

Elapsed ASTM days: 70

Date of Last EDR Contact: 06/24/02

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/14/02
Date Made Active at EDR: 06/03/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/25/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 06/24/02

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/02/02
Date Made Active at EDR: 07/15/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 06/10/02

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/10/02
Date Made Active at EDR: 07/15/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 06/20/02
Elapsed ASTM days: 25
Date of Last EDR Contact: 06/20/02

ERNS: Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/01
Date Made Active at EDR: 07/15/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/02/02
Elapsed ASTM days: 13
Date of Last EDR Contact: 04/29/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/99
Database Release Frequency: Biennially

Date of Last EDR Contact: 06/17/02
Date of Next Scheduled EDR Contact: 09/16/02

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/01
Database Release Frequency: Annually

Date of Last EDR Contact: 07/09/02
Date of Next Scheduled EDR Contact: 10/07/02

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/22/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/02
Date of Next Scheduled EDR Contact: 08/05/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/21/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/02
Date of Next Scheduled EDR Contact: 07/22/02

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis

Date of Government Version: 04/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 06/05/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/28/02
Date of Next Scheduled EDR Contact: 08/26/02

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 05/14/02
Date of Next Scheduled EDR Contact: 08/12/02

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/99
Database Release Frequency: Annually

Date of Last EDR Contact: 06/24/02
Date of Next Scheduled EDR Contact: 09/23/02

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 01/14/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/03/02
Date of Next Scheduled EDR Contact: 09/23/02

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/25/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/03/02
Date of Next Scheduled EDR Contact: 09/23/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF MINNESOTA ASTM STANDARD RECORDS

SHWS: Superfund Permanent List of Priorities

Source: Minnesota Pollution Control Agency

Telephone: 651-296-6139

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/01/01

Date Made Active at EDR: 10/12/01

Database Release Frequency: Annually

Date of Data Arrival at EDR: 09/10/01

Elapsed ASTM days: 32

Date of Last EDR Contact: 06/11/02

VIC: Voluntary Investigation and Cleanup Program

Source: Minnesota Pollution Control Agency

Telephone: 651-296-7291

Voluntary Investigation and Cleanup (VIC) Program List.

Date of Government Version: 04/04/02

Date Made Active at EDR: 05/06/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/10/02

Elapsed ASTM days: 26

Date of Last EDR Contact: 07/08/02

SWF/LF: Permitted Solid Waste Disposal Facilities

Source: Minnesota Pollution Control Agency

Telephone: 651-296-7276

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites

Date of Government Version: 12/01/00

Date Made Active at EDR: 02/02/01

Database Release Frequency: Varies

Date of Data Arrival at EDR: 01/03/01

Elapsed ASTM days: 30

Date of Last EDR Contact: 06/11/02

LUST: Leak Sites

Source: Minnesota Pollution Control Agency

Telephone: 651-649-5451

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 02/07/02

Date Made Active at EDR: 03/27/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/08/02

Elapsed ASTM days: 19

Date of Last EDR Contact: 07/16/02

UST: Underground Storage Tank Database

Source: Minnesota Pollution Control Agency

Telephone: 651-649-5451

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 05/03/02

Date Made Active at EDR: 07/05/02

Database Release Frequency: Varies

Date of Data Arrival at EDR: 05/09/02

Elapsed ASTM days: 57

Date of Last EDR Contact: 05/09/02

STATE OF MINNESOTA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Storage Tanks

Source: Minnesota Pollution Control Agency

Telephone: 651-296-0930

Registered Aboveground Storage Tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/03/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/09/02
Date of Next Scheduled EDR Contact: 07/15/02

SPILLS: Spills Database

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8617

Date of Government Version: 06/25/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/17/02
Date of Next Scheduled EDR Contact: 08/05/02

MN HWS PERMIT: Active TSD Facilities

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8470
Active TSD Facilities.

Date of Government Version: 01/02/02
Database Release Frequency: Annually

Date of Last EDR Contact: 07/15/02
Date of Next Scheduled EDR Contact: 10/14/02

MN Deleted SHWS: Permanent List of Priority Deletions

Source: Minnesota Pollution Control Agency
Telephone: 651-296-6139

The PLP rules specify that to delist a site, either all response actions required at a site have been completed, or that the site no longer poses a threat to public health or welfare or the environment.

Date of Government Version: 06/01/01
Database Release Frequency: Annually

Date of Last EDR Contact: 06/11/02
Date of Next Scheduled EDR Contact: 09/09/02

LCP: Closed Landfills Priority List

Source: Minnesota Pollution Control Agency
Telephone: 651-296-9543

The Minnesota Legislature enacted a law to manage and clean up the state's closed Mixed Municipal Solid Waste Landfills. Under that law, the MPCA is required to create and periodically revise a priority list of qualified landfills, based on the relative health and environmental risks they present. The MPCA established the first such priority list in December, 1994.

Date of Government Version: 07/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 06/25/02
Date of Next Scheduled EDR Contact: 09/23/02

LS: List of Sites

Source: Minnesota Pollution Control Agency
Telephone: 651-297-2731

The List of Sites includes: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP), National Priorities List (NPL), Permanent List of Priorities (PLP), sites delisted from the Permanent List of Priorities (DPLP), Hazardous Waste Permit Unit Project Facilities (HW PERM), List of Permitted Solid Waste Facilities (SW PERM), 1980 Metropolitan Area Waste Disposal Site Inventory (METRO), 1980 Statewide Outstate Dump Inventory (ODI), Voluntary and Investigation Program (VIC), and Closed Landfill Sites Undergoing Cleanup (LCP).

Date of Government Version: 06/11/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/10/02
Date of Next Scheduled EDR Contact: 09/09/02

ENFORCEMENT: Generators Associated with Enforcement Logs

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8332

Regulatory Compliance, Hazardous Waste Enforcement Log and Hazardous Waste Permit Unit Project Identification List

Date of Government Version: 04/25/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/16/02
Date of Next Scheduled EDR Contact: 10/14/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BULK: Bulk Facilities Database

Source: Department of Agriculture

Telephone: 651-297-3997

Facilities that use bulk pesticides and fertilizers

Date of Government Version: 06/24/02

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/10/02

Date of Next Scheduled EDR Contact: 09/09/02

AG SPILLS: Department of Agriculture Spills

Source: Department of Agriculture

Telephone: 651-297-3997

This data is a list of pesticide/fertilizer incidents reported to have occurred in Minnesota.

Date of Government Version: 06/06/02

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/06/02

Date of Next Scheduled EDR Contact: 09/09/02

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U S Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

© 2001 Geographic Data Technology, Inc., Rel. 07/2001. This product contains proprietary and confidential property of Geographic Data Technology, Inc. Unauthorized use, including copying for other than testing and standard backup procedures, of this product is expressly prohibited.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer

This Report contains information obtained from a variety of public sources and EDR makes no representation or warranty regarding the accuracy, reliability, quality, or completeness of said information or the information contained in this report. The customer shall assume full responsibility for the use of this report.

No warranty of merchantability or of fitness for a particular purpose, expressed or implied, shall apply and EDR specifically disclaims the making of such warranties. In no event shall EDR be liable to anyone for special, incidental, consequential or exemplary damages.

APPENDIX E – AST PERMITS AND TABS DATABASE



Minnesota Pollution Control Agency
Tales - Tank Site Information-Short Report

Report Number: 68

28 August, 2002

Site Information

Preferred ID: 5297
LTV STEEL MINING CO
CO RD 110
HOYT LAKES MN 55750

Region: 1 - Duluth
District: NORTH
County: St. Louis

Owner Information

CLIFFS ERIE LLC
PO BOX 847
HOYT LAKES MN 55750
Phone: 218-225-4217

Tank Information

<u>Client Tank</u>	<u>MPCA Tank</u>	<u>A/U</u>	<u>Status</u>	<u>Substance Stored</u>	<u>Capacity</u>	<u>Registration</u>	<u>Removed Date</u>	<u>Installed Date</u>
	1038	Above Ground	Active	Petroleum Other	FUEL OIL	265		01/01/1959
	1070	Above Ground	Active	Lube Oil		895		01/01/1959
	1088	Above Ground	Active	Other Substance	60R COM OIL	300		01/01/1959
	1089	Above Ground	Active	Motor Oil		300		01/01/1959
	1090	Above Ground	Active	Motor Oil		300		01/01/1959
	1091	Above Ground	Active	Petroleum Other	FUEL OIL	1,000		01/01/1959
	1111	Above Ground	Active	Gasoline		265		01/01/1959
001	001	Under Ground	Closed In-Place	Fuel Oil	10,000	7/16/1986		01/01/1901
001	1001	Above Ground	Temporarily Closed	Petroleum Other	FUEL OIL	10,000		01/01/1959
007	1007	Above Ground	Temporarily Closed	Petroleum Other	FUEL OIL	1,000		01/01/1959
010	1010	Above Ground	Active	Petroleum Other	FUEL OIL	1,000		01/01/1959
015	1015	Above Ground	Active	Petroleum Other	FUEL OIL	12,000		01/01/1959
016	1016	Above Ground	Active	Petroleum Other	FUEL OIL	265		01/01/1959
017	1017	Above Ground	Active	Petroleum Other	FUEL OIL	265		01/01/1959
018	1018	Above Ground	Active	Petroleum Other	FUEL OIL	1,000		01/01/1959
019	1019	Above Ground	Active	Fuel Oil		6,000		01/01/1959
025	025	Under Ground	Removed	Fuel Oil	6,000	7/16/1986	07/25/1989	01/01/1983
026	1026	Above Ground	Active	Petroleum Other	FUEL OIL	1,000		01/01/1959
030	1030	Above Ground	Removed	Petroleum Other	FUEL OIL			01/01/1959
032	1032	Above Ground	Active	Petroleum Other	FUEL OIL	3,384,000		01/01/1959
033	1033	Above Ground	Active	Other Substance	BUNKER C	3,384,000		01/01/1959
034	1034	Above Ground	Active	Other Substance	EMPTY	3,384,000		01/01/1959
035	1035	Above Ground	Active	Petroleum Other	FUEL OIL	1,000		01/01/1959
036	1036	Above Ground	Active	Petroleum Other	FUEL OIL	18,000		01/01/1992
039	1039	Above Ground	Active	Petroleum Other	FUEL OIL	19,600		01/01/1959
040	1040	Above Ground	Active	Petroleum Other	FUEL OIL	19,600		01/01/1959



Tales - Tank Site Information-Short Report

Site InformationTank Information

<u>Client Tank</u>	<u>MPCA Tank</u>	<u>A/U</u>	<u>Status</u>	<u>Substance Stored</u>	<u>Capacity</u>	<u>Registration</u>	<u>Removed Date</u>	<u>Installed Date</u>
119	1119	Above Ground	Temporarily Closed	Fuel Oil	800	1/31/1995		01/01/1991
121	1121	Above Ground	Active	Gasoline	6,000			01/01/1991
122	1122	Above Ground	Active	Gasoline	6,000			01/01/1959
24	1024	Above Ground	Active	Petroleum Other	1,000			01/01/1959
2W	102W	Above Ground	Active	Motor Oil	520			01/01/1959
2W	103W	Above Ground	Active	Motor Oil	520			01/01/1959
2W	104W	Above Ground	Active	Motor Oil	520			01/01/1959
2W	105W	Above Ground	Active	Antifreeze	520			01/01/1959
2WX	1120	Above Ground	Active	Antifreeze	520			01/01/1959
2WX	1123	Above Ground	Active	Other Substance	520			01/01/1959
2WX	1124	Above Ground	Active	Motor Oil	520			01/01/1959
2WX	1125	Above Ground	Active	Motor Oil	520			01/01/1959
2WX	12WX	Above Ground	Active	Motor Oil	520			01/01/1959
300	1300	Above Ground	Active	Other Substance	1,300			01/01/1959
301	1301	Above Ground	Active	Other Substance	800			01/01/1959
302	1302	Above Ground	Active	Other Substance	1,080			01/01/1959
303	1303	Above Ground	Active	Other Substance	1,080			01/01/1959
304	1304	Above Ground	Active	Mineral Oil From Transformer	12,000			01/01/1959
305	1305	Above Ground	Active	Mineral Oil From Transformer	12,000			01/01/1959
306	1306	Above Ground	Active	Mineral Oil From Transformer	12,000			01/01/1959
312	1312	Above Ground	Active	Petroleum Other	6,000			01/01/1959
313	1313	Above Ground	Active	Petroleum Other	6,000			01/01/1959
316	1316	Above Ground	Active	Motor Oil	7,000			01/01/1959
317	1317	Above Ground	Active	Motor Oil	7,000			01/01/1959
318	1318	Above Ground	Active	Motor Oil	2,500			01/01/1959
319	1319	Above Ground	Active	Other Substance	2,500			01/01/1959
322	1322	Above Ground	Active	Petroleum Other	5,000			01/01/1959
326	1326	Above Ground	Active	Motor Oil	2,700			01/01/1959
327	1327	Above Ground	Active	Motor Oil	2,000			01/01/1959
328	1328	Above Ground	Active	Motor Oil	3,000			01/01/1959
331	1331	Above Ground	Active	Lube Oil	2,750			01/01/1959
332	1332	Above Ground	Active	Motor Oil	550			01/01/1959
333	1333	Above Ground	Active	Motor Oil	550			01/01/1959
335	1335	Above Ground	Active	Other Substance	270			01/01/1959
336	1336	Above Ground	Active	Other Substance	270			01/01/1959
337	1337	Above Ground	Active	Other Substance	270			01/01/1959
337	1339	Above Ground	Active	Other Substance	360			01/01/1959



Minnesota Pollution Control Agency
Tales - Tank Site Information-Short Report

Report Number: 68

28 August, 2002

Site Information

Preferred ID: 15148
LTV STEEL MINING CO
MURPHY
HOYT LAKES MN 55750

Region: 1 - Duluth
District: NORTH
County: St. Louis

Owner Information

LTV STEEL MINING CO
PO BOX 847
HOYT LAKES MN 55750
Phone: 218-225-4215

Tank Information

<u>Client Tank</u>	<u>MPCA Tank</u>	<u>A/U</u>	<u>Status</u>	<u>Substance Stored</u>	<u>Capacity</u>	<u>Registration</u>	<u>Removed Date</u>	<u>Installed Date</u>
073	073	Under Ground	Removed	Diesel	2,000	6/19/1991	10/31/1988	01/01/1901
098	1098	Above Ground	Active	Fuel Oil	1,000			01/01/1959
113	113	Under Ground	Removed	Gasoline	1,000	6/19/1991	10/31/1988	01/01/1901
125	1125	Above Ground	Active	Gasoline	1,000			01/01/1959



Minnesota Pollution Control Agency
Tales - Tank Site Information-Short Report

Report Number: 68

28 August, 2002

Site Information

Preferred ID: 15149
LTV STEEL MINING CO
DUNKA MINE (AREA 8) SHOPS
BABBITT MN 55706

Region: 1 - Duluth
District: NORTH
County: St. Louis

Owner Information

LTV STEEL MINING CO
PO BOX 847
HOYT LAKES MN 55750
Phone: 218-225-4215

Tank Information

<u>Client Tank</u>	<u>MPCA Tank</u>	<u>A/U</u>	<u>Status</u>	<u>Substance Stored</u>	<u>Capacity</u>	<u>Registration</u>	<u>Removed Date</u>	<u>Installed Date</u>
005	1005	Above Ground	Active	Gasoline	300			01/01/1959
043	1043	Above Ground	Active	Fuel Oil	7,500			01/01/1959
059	059	Under Ground	Removed	Fuel Oil	17,000	6/19/1991	10/13/1994	01/01/1901
059	1059	Above Ground	Active	Fuel Oil	17,000			01/01/1959
092	1092	Above Ground	Active	Fuel Oil	20,000			01/01/1959
110	110	Under Ground	Removed	Gasoline	4,000	6/19/1991	01/01/1975	01/01/1901
110	1110	Above Ground	Active	Gasoline	1,000			01/01/1959
111	111	Under Ground	Removed	Gasoline	500	6/19/1991	01/01/1975	01/01/1901
329	1329	Above Ground	Active	Motor Oil	2,000			01/01/1959
330	1330	Above Ground	Active	Motor Oil	1,500			01/01/1959
404	1404	Above Ground	Active	Antifreeze	2,000			01/01/1959
409	1409	Above Ground	Active	Other Substance	20,000			01/01/1959

LIGNITE



Minnesota Pollution Control Agency
Tales - Tank Site Information-Short Report

Report Number: 68

28 August, 2002

Site Information

Preferred ID: 51740
MARINE FUELING DIVISION - KOCH FUELS INC
ERIE MINING CO PROPERTY
TACONITE MN 55613

Region: 1 - Duluth
District: NORTH
County: Cook

Owner Information

LTV STEEL MINING CO
PO BOX 847
HOYT LAKES MN 55750
Phone: 218-225-4215

Tank Information

<u>Client Tank</u>	<u>MPCA Tank</u>	<u>A/U</u>	<u>Status</u>	<u>Substance Stored</u>	<u>Capacity</u>	<u>Registration</u>	<u>Removed Date</u>	<u>Installed Date</u>
1	1001	Above Ground	Active	Fuel Oil	179,970	5/21/1990		01/01/1968
2	1002	Above Ground	Active	Diesel	9,996	5/21/1990		01/01/1970
3	1003	Above Ground	Active	Petroleum Other	180,000	5/21/1990		01/01/1971
4	1004	Above Ground	Active	Fuel Oil	3,381,000	1/3/1992		01/01/1955
5	1005	Above Ground	Active	Fuel Oil	183,000	12/3/1992		01/01/1969
6	1006	Above Ground	Active	Fuel Oil	1,650,000	12/3/1992		01/01/1955
7	1007	Above Ground	Active	Fuel Oil	10,000	12/3/1992		01/01/1970



Minnesota Pollution Control Agency
Tales - Tank Site Information-Short Report

Report Number: 68

28 August, 2002

Site Information

Preferred ID: 15150
CLIFFS ERIC LLC-TACONITE HARBOR
US HWY 61/PO BOX 64
SCHROEDER MN 55613

Region: 1 - Duluth
District: NORTH
County: Cook

Owner Information

CLIFFS ERIE LLC
PO BOX 847
HOYT LAKES MN 55750
Phone: 218-225-4217

Tank Information

<u>Client Tank</u>	<u>MPCA Tank</u>	<u>A/U</u>	<u>Status</u>	<u>Substance Stored</u>	<u>Capacity</u>	<u>Registration</u>	<u>Removed Date</u>	<u>Installed Date</u>
	1007	Above Ground	Active	Fuel Oil	335	1/29/2001		
	1010	Above Ground	Active	Gasoline	500	1/29/2001		
	1012	Above Ground	Active	Petroleum Other	190	1/29/2001		
	1013	Above Ground	Active	Transmission Fluid	190	1/29/2001		
	1014	Above Ground	Active	Motor Oil	190	1/29/2001		
	1015	Above Ground	Active	Motor Oil	190	1/29/2001		
	1016	Above Ground	Active	Motor Oil	190	1/29/2001		
022	1022	Above Ground	Active	Fuel Oil	120	3/18/1993		01/01/1959
023	1023	Above Ground	Active	Used Or Waste Oil	500	3/18/1993		01/01/1959
067	1067	Above Ground	Removed	Fuel Oil	1,680,000			01/01/1955
068	1068	Above Ground	Removed	Fuel Oil	3,360,000			01/01/1955
069	069	Under Ground	Removed	Diesel	1,000	6/19/1991	11/03/1988	01/01/1901
070	070	Under Ground	Removed	Diesel	1,500	6/19/1991	11/03/1988	01/01/1901
071	1071	Above Ground	Removed	Fuel Oil	10,000	3/18/1993		01/01/1959
072	1072	Above Ground	Active	Fuel Oil	61,000	3/18/1993		01/01/1959
093	1093	Above Ground	Removed	Fuel Oil	179,970			01/01/1969
094	1094	Above Ground	Active	Fuel Oil	10,000	3/18/1993		01/01/1970
112	112	Under Ground	Removed	Gasoline	1,000	6/19/1991	10/17/1989	01/01/1901
123	1123	Above Ground	Active	Used Or Waste Oil	1,000	3/18/1993		01/01/1959
320	1320	Above Ground	Active	Petroleum Other	5,000	3/18/1993		01/01/1959
321	1321	Above Ground	Active	Petroleum Other	5,000	3/18/1993		01/01/1959
323	1323	Above Ground	Active	Fuel Oil	10,000	3/18/1993		01/01/1959
324	1324	Above Ground	Active	Fuel Oil	10,000	3/18/1993		01/01/1959
325	1325	Above Ground	Active	Fuel Oil	10,000	3/18/1993		01/01/1959



Minnesota Pollution Control Agency

February 3, 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Mike Swindlehurst
LTV Steel Mining Company
Box 64
Schroeder, Minnesota 55613

RE: Aboveground Storage Tank General Permit #15150
LTV Steel, Schroeder, Minnesota
Aboveground Storage Tank General Permit #51740
Koch Marine Fueling, Taconite Harbor, Minnesota

Dear Mr. Swindlehurst:

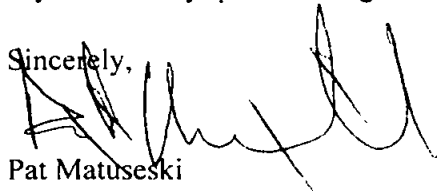
Pursuant to Part V.d. of the above-referenced General Permit(s), the Minnesota Pollution Control Agency intends to issue an individual site permit to your facility in lieu of the General Permits.

Enclosed please find the application form for an Aboveground Storage Tank Major Facility Permit. Please complete the application and submit, together with any required attachments, to my attention within 30 calendar days of receipt of this letter. The application asks for information which should be readily available. There is no fee at this time for aboveground storage tank permits.

After the application has been reviewed, you will receive an acknowledgment of completeness. An individual site permit will then be drafted by the Minnesota Pollution Control Agency and reviewed with you.

If you have any questions regarding the application process, please contact me at 612/297-8602.

Sincerely,


Pat Matuseski
Project Consultant Senior
Compliance and Assistance Unit
Tanks and Emergency Response Section

PM:km

Enclosure

INFO FOR AST ELECTRONIC PERMIT FOR SITE #51740:
Koch Marine Fueling; Taconite Harbor, Mn.

MPCA tank #,	Company tank #,	Substance	Capacity	Year Installed	Status	Tank Material
1001	1	fuel oil 4-6	179,970	01/01/68	ACTIVE	METAL
1002	2	diesel	9,996	01/01/70	ACTIVE	METAL
1003	3	other	180,000	01/01/71	ACTIVE	METAL
1004	4	fuel oil 4-6	3,381,000	01/01/55	ACTIVE	METAL
1005	5	fuel oil 4-6	183,000	01/01/69	ACTIVE	METAL
1006	6	fuel oil 1-2	1,650,000	01/01/55	ACTIVE	METAL
1007	7	fuel oil 1-2	10,000	01/01/70	ACTIVE	METAL

INFO FOR AST ELECTRONIC PERMIT FOR SITE #15150:
LTV Steel; Schroeder, Minneosta

MPCA TANK #	Company TANK #	Substance	Capacity	Year Installed	Status	Tank Material
1067	067	fuel oil 1-2	1,680,000	01/01/55	active	metal
1068	068	fuel oil 4-6	3,360,000	01/01/55	active	metal
1071	71	fuel oil 1-2	10,000	01/01/59	inactive	PVC, fiberglass, synthetic, rubber
1072	072	fuel oil 1-2	61,000	01/01/59	active	metal
1093	093	fuel oil 4-6	179,970	01/01/69	active	metal
1094	094	fuel oil 1-2	10,000	01/01/70	active	metal
1320	320	turbine oil	5,000	01/01/59	active	metal
1321	321	turbine oil	5,000	01/01/59	active	metal
1323	323	fuel oil 1-2	10,000	01/01/59	active	metal
1324	324	transmission fluid	10,000	01/01/59	active	metal
1325	325	trex	10,000	01/01/59	active	metal

MINNESOTA POLLUTION CONTROL AGENCY ABOVEGROUND STORAGE TANK PROGRAM

MAJOR FACILITY PERMIT APPLICATION

Instructions

NOTE: This application form is also available upon request on a 3.5" floppy disk using Microsoft Word for Windows 6.0. Electronic submittals using this software are encouraged, but not required.

- Submit a separate application for each facility (site) being reviewed by the MPCA.
- Answer questions using additional sheets, numbering answers according to the question number.
- Answer questions using information that is currently available. Where an answer to a question is unknown, or would require further testing or assessment, indicate "Unknown".
- Even if the information requested has been submitted to the MPCA at some other time or in some other form, please include it here in order to verify that it is up to date. One exception would be if a specific document is requested which was previously submitted; in this case, reference the name of the document and date it was submitted.
- Make sure the application form is signed by the appropriate authorized company representative.
- Submit (1) signed application form, (2) answers to questions, and (3) all required attachments, to:

Aboveground Storage Tank Program
Minnesota Pollution Control Agency
520 Lafayette Road, St. Paul, MN, 55155

I. Facility Owner/Operator

List all persons, corporations, and other legal entities with any ownership (including leasehold) interest in the aboveground liquid storage tanks or the property on which the tanks are located. If a person, corporation, or other legal entity other than an owner is responsible for the day-to-day management of tank-related activities at the facility, or if there are joint owners and only one is so responsible, list with the designation (Operator). For each owner or operator, identify:

1. Corporate name.
2. Mailing address.
3. Contact person.
4. Phone number.

II. Location of Facility

1. Street or highway address.
2. City or township.
3. County.
4. Legal description.
5. AST site registration number(s).

III. Description of Business Activities

Brief description of the nature of the business or activities at the facility and how aboveground liquid storage is used in the course of the business or activities.

IV. Tanks

List all aboveground storage tanks at the facility which are being or have been used to store any liquid which could pollute the waters of the state, including groundwater. This includes hazardous substances such as chemicals and petroleum products, as well as non-hazardous substances such as molasses and sugar beet juice. DO NOT LIST: tanks with less than 1100 gallons capacity; underground tanks; agricultural chemical tanks; water or milk tanks; compressed gas tanks; tote tanks; and liquid transport vehicles. DO LIST: tanks which are temporarily or intermittently empty; and tanks which have been permanently closed but not removed.

A current listing of tanks registered with the MPCA has been included with the application.

For each tank, identify:

1. Tank number.

Tank owners may use the MPCA numbering system or a company numbering system, in which case the MPCA will follow the company numbering system in the future. Tank numbers must be keyed to facility map.

2. Substance.

Identify petroleum products, food products, and chemicals with as much specificity as possible. If tank is used to store different substances at different times, list all. If substance is either a mixture or a primary substance with contaminants, list all major components of the liquid.

3. Capacity, in gallons.

4. Year of installation (if uncertain, either provide estimate or put Unknown)

5. Status -- Active (currently or intermittently contains liquid substance) or Inactive (currently empty and resumption of storage is not anticipated).

6. Tank material -- Steel, Fiberglass, Plastic, or Other (describe).

7. Fabrication -- Shop-fabricated or Field-erected.

8. Tank wall -- Single or Double.

9. Tank floor -- Single, Double, or Coated (identify material).

10. Tank base (under floor area) -- Ringwall, Slab, Liner (describe), Sand, Native Soil, Other or Combination (describe).

11. Gauging method -- Manual, Float, None or Other (describe).

12. Overfill protection system (if any, describe)

13. Corrosion protection system for underside of tank floor (if any, describe)

14. Leak detection system (if any, describe)

15. Date of most recent out-of-service inspection and method used. If no inspection has been performed, mark None.

16. Scheduled or estimated date of next out-of-service inspection.

V. Secondary Containment

List all secondary containment areas for tanks listed in Part IV, including:

1. Containment area number (keyed to facility map)

2. Tank number of each tank within area

3. Volume

Based on survey required by Part X, calculate net available volume of containment in gallons, accounting for contour of land, slope of dike walls, piping, tanks, buildings, and other obstructions within area. Attach calculations.

4. Construction materials -- Synthetic Liner (describe), Concrete, Native Soil, or Amended Clay Liner. Attach construction specifications and drawings if available.

5. Permeability (if known)

Express permeability as hydraulic conductivity to water in cm/sec. For synthetic liner, attach manufacturer's claim or warranty. For native soil or amended clay liner, attach permeability test reports, or reference such reports if previously submitted.

VI. Site Geology

1. Average or estimated depth to groundwater (ft.).
2. Native soil classification, between surface and groundwater.
3. Calculated or estimated vertical permeability of native soil (cm/sec), not including any containment liner.
4. Average or estimated depth to bedrock (ft.)
5. Bedrock type and formation name, if known
6. Describe any existing tank- or pipe-related site contamination, or any investigation indicating no contamination

NOTE: Requested information may be found in engineering reports or site assessments. Include references for all data and copies of relevant reports. Information requested is for facility as a whole; however, if significant geological differences exist within the facility, give information as applicable to each containment area. If there is no information available, mark "No information".

VII. Receptors

Attach a map which identifies:

1. Drinking water wells within one mile radius of any facility tank,
2. Surface waters (streams, rivers, lakes, ponds) within 1/2 mile radius of any facility tank.
3. Surface drainage patterns leading from facility.

Drinking water well search must include review of the Minnesota Geological Survey and county records at a minimum, or other search method (describe). For any wells identified, submit any available well logs.

VIII. Site History

1. Provide a summary of (a) all spills at the facility greater than 1000 gallons (including any where exact amount is unknown) that occurred prior to 1986 or which have never been reported to the MPCA, (b) all underground line leaks, and (c) all tank bottom leaks, including any identification of tank bottom holes. Give date, substance, amount, location, and response.
2. Describe any tank or secondary containment assessments or upgrades conducted during the past two years. Describe any current plans for assessments or upgrades.
3. Describe the tank inspection policy, such as API 653, followed at the facility.

IX. Certification

Certification must be signed by an authorized company representative who is a member of company management.

I hereby certify, under penalty of law, that I have personally examined and am familiar with the information submitted on this and all attached documents. I believe that the submitted information is true, accurate and complete.

Signature

Date

Print name

Title

X. Attachments

Required:

- Answers to questions
- Facility map showing location of (1) tanks listed in IV, (2) secondary containment areas listed in V., (3) product lines of 2" or greater inside diameter, located outside of any building, running to, from, or between tanks (identify as aboveground or underground), (4) loading racks, (5) buildings, and (6) roads. Tanks and secondary containment areas must be numbered as in parts IV and V.
- Survey of any outdoor tanks with native soil or amended clay containment areas. Submit actual drawings showing site contour and elevations. Survey may be up to three years old if no new containment areas have been constructed and no modifications made to containment areas since the survey was conducted. A survey over three years old may be submitted if a licensed surveyor has recently shot the lowest part of each dike and the highest part of the bottom of each diked area to determine if the original elevations remain accurate.
- Receptor map showing information required by VII.A.

NOTE: Facility map, survey, and receptor map may be combined if desired.

Optional:

- Tank construction specifications and drawings
- Secondary containment area construction specifications and drawings
- Permeability test reports



Minnesota Pollution Control Agency

May 28, 1998

Mr. James R. Scott, Manager
LTV Steel Mining Company
Box 847
Hoyt Lakes, Minnesota 55750

Dear Mr. Scott:

The Minnesota Pollution Control Agency (MPCA) is pleased to provide LTV Steel Mining Company with a signed Aboveground Storage Tank (AST) Permit. This major facility permit pertains to your taconite plant located in Hoyt Lakes, Minnesota, and includes environmental safeguards for each of your outdoor and indoor liquid storage tanks. This permit also replaces the Liquid Storage General Permit for tanks greater than 1,100 gallons.

The MPCA appreciates the extensive involvement by LTV Steel Mining in developing both an innovative permit as well as an enduring partnership. Your cooperative efforts are a continual example of LTV's environmental tank management program designed to first prevent and then contain aboveground tank and transmission line spills. While its continual success depends largely upon the company's on-going efforts, MPCA staff stand ready to assist LTV in expanding your company's already excellent program.

In the event you have any questions or concerns feel free to call me at 612/297-8663 at your earliest convenience. Your continued cooperation throughout our mutual permitting process was much appreciated.

Sincerely,

Jim Kolar
Permit Specialist
Tanks and Emergency Response Section

jlk:tf

cc: Pat Carey, Duluth Office

Minnesota Pollution Control Agency

**PERMIT
FOR
STORAGE OF LIQUID SUBSTANCES
AT A
MAJOR ABOVEGROUND STORAGE TANK FACILITY**

Pursuant to Minn. Stat. § 115.03, subd. (1)(e)(3), and Minn. R. 7100.0040, the Minnesota Pollution Control Agency hereby issues a permit for the storage of liquid substances at a major aboveground storage tank facility. This permit authorizes the operation of the described aboveground storage tanks by the owner named under the conditions set forth herein for a period of five years.

OWNER: LTV Steel Mining Company
Box 847, County Road 666
Hoyt Lakes, Minnesota 55750

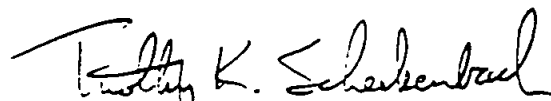
FACILITY: LTV Steel Mining Company
Box 847, County Road 666
Hoyt Lakes, Minnesota 55750

PERMIT NUMBER: AST #5297

EXPIRATION DATE: Five years from signature date

Dated: _____

5/27/98



Timothy K. Scherkenbach
Division Manager
Hazardous Waste Division

I. Facility Description

LTV Steel Mining Company is a taconite mining company located in Hoyt Lakes, Minnesota. Annually, over 25 million tons of raw taconite ore is mined in the production of 8 million long tons of taconite pellets. To produce and transport these pellets approximately 20,000 gallons per day of fuel oil are required to fuel the pellet process equipment and to transport taconite ore and pellets via trucks and trains.

II. Special Conditions

A. Definitions

1. "Facility" means LTV Steel Mining Company.
2. "MPCA" means the Aboveground Storage Tank (AST) Program of the Minnesota Pollution Control Agency.
3. "Permittee" means LTV Steel Mining Company.
4. "Indoor tank" means an AST located inside of a building on or above an impermeable floor, from which a spill in the amount of the design capacity of the tank:
 - a. would be entirely contained within a tank-specific secondary containment structure; or
 - b. would not reasonably be expected to escape from the building through doorways, floor drains or other means; or
 - c. would be directed by the drainage system of the building either to a permitted on-site wastewater treatment facility, to a permitted municipal wastewater treatment facility or to a permitted and engineered tailings pond.

B. Tanks Subject to this Permit

1. This permit applies to all indoor and outdoor ASTs located at the Facility with a capacity of greater than 1,100 gallons, used to store any liquid substance, including petroleum products or chemicals which could cause pollution to the waters of the state.
2. All tanks to which this permit applies are listed in Attachment 1. This list is based on information provided by the Permittee. The Permittee shall notify the MPCA immediately of any errors in or omissions from the list in Attachment 1.

C. Product Transmission Lines Subject to this Permit

This permit applies to all product transmission lines located at the Facility which are appurtenant to one or more ASTs to which this permit applies, two inches or greater inside diameter, located outside of or below any building, and which are either above or under the ground. An appurtenant line which enters or exits the Facility is subject to this permit only to the extent that it traverses or underlies Facility property.

D. Gauging and Reconciliation

1. For each field-erected fuel oil tank #032, #033 and #034, as described in Attachment 1, Column 5, the Permittee shall obtain the tank product level or tank product volumes at least one time per week. Following correction for known or closely estimated tank input, output and product temperature, the Permittee shall make a determination that same day whether unexplained product volume changes have occurred in the tank since the previous weeks determination.
2. For all tanks, the Permittee shall calibrate tank gauges annually.
3. A written record of the weekly gauging and annual gauge calibration shall be retained for a minimum of three years.

E. Visual Inspection

1. For each outdoor tank and each outdoor product transmission line segment located aboveground, the Permittee shall conduct a weekly visual walk-by inspection for evidence of leaks, distortion, corrosion, or settlement.
2. Visual inspection means a visual check of the entire tank circumference, or length of an aboveground line segment, from a distance close enough to see whether or not product has seeped or flowed from the tank or aboveground line.
3. A log indicating the date and results of each weekly inspection shall be signed or initialed and retained on-site for three years.
4. Visual inspection of a tank is not required during any period when the tank is empty.

F. External Inspection of Field-Erected Tanks

1. The Permittee shall conduct formal in-service external inspections of each fuel oil outdoor tank #032, #033, #034, as described in Attachment 1, Column 1.
2. External inspections shall conform to American Petroleum Institute (API) Standard 653 and shall be performed by an API Standard 653 Certified Tank Inspector.
3. External inspections shall be conducted every five years or at one-quarter of the shell life based on corrosion, whichever is less.
4. A written record of the date and results of each external inspection shall be retained for five years.

G. Internal Inspection of Field-Erected Tanks

1. The Permittee shall conduct formal out-of-service API 653 internal inspections of fuel oil tanks #032, #033 and #034, as described by Attachment 1, Column 2. The final report shall include the inspection results, tank floor condition, any repairs that were made or recommended, and the calculated date of the next internal inspection based on the API 653 calculated rate of corrosion.

2. Any repairs indicated as a result of an API 653 inspection shall be made prior to returning the tank to service.
3. In addition to notification of the Minnesota State Duty Officer as required by Minn. Stat. § 115.061 in the case of a confirmed release of a liquid substance from a tank, the Permittee shall notify the MPCA prior to returning the tank to service of any evidence of a possible release that is discovered during an internal inspection, for example, the identification of a hole or weld failure in a tank bottom.

H. Secondary Containment

1. The Permittee shall ensure that each fuel oil day tank #083, #084 and #085 has secondary containment that is approved by the MPCA and that will reasonably protect any waters of the state against pollution by the liquid stored, considering all release prevention, detection and containment safeguards for the tank.
2. Attachment 2 identifies whether or not the MPCA has approved the existing secondary containment for each tank listed above. Attachment 2 identifies whether and when construction is required that will provide for adequate containment.

Upon completion of the secondary containment a site survey shall show elevation and contour sufficient to calculate actual containment volumes within a reasonable margin of error. Survey drawings and all volume calculations shall be submitted to the MPCA.

3. The MPCA will review site survey results and, following discussion with the Permittee, indicate whether structural modification of any containment area is required to achieve adequate volume, and if so, when the structural modification shall be completed.

4. For any structural modification of an outdoor containment area such as upgrading containment permeability or re-grading of dike walls, plans and specifications shall be submitted for MPCA approval prior to starting work. Upon completion of work, the containment area shall be re-surveyed to verify adequate containment volume and the drawings and calculations submitted to the MPCA.
5. The Permittee shall equip outdoor containment areas with either:
 - a. a manually controlled pump or siphon; or
 - b. a gravity drain pipe with a manually controlled dike valve which is fixed in a closed position.
6. The Permittee shall at all times maintain containment volume in the containment area equal to or greater than 100 percent of the storage capacity of the largest tank within the area.
7. The Permittee shall take all steps necessary to control erosion, prevent damage by vehicles, and otherwise maintain the integrity of all containment areas. The Permittee shall maintain containment areas free of cracks, open seams, open drains, and any vegetation other than grass at all times.

I. Tank Floor Upgrade

1. Following completion of the API 653 internal tank inspections for tank #032, #034 and #035 (as described in Part II.G.), and subject to the certified tank inspectors results and recommendations, the Permittee shall complete the recommendations including but not limited to floor repairs, a new single floor, a double bottom, or an internal tank floor coating or liner. In the event a tank floor upgrade is recommended all upgrades are to be completed by the date specified in Attachment 1, Column 4.
2. An internal tank floor coating or liner means a coating or liner which is of sufficient thickness, density, and strength to form a hard shell which will not crack, soften, or separate from the interior surface of the tank, and which extends up the side of the tank a minimum of 18 inches from the tank floor.
3. The Permittee shall submit plans and specifications for any tank floor repairs, replacement, double bottom, tank floor coating or floor liner for MPCA approval prior to completion.

J. Corrosion Protection

1. Following the completion of API 653 internal inspection for tank #034, #033 and #032, and in the event floor repairs, a new floor, a double bottom, a liner or tank floor coating is recommended by the inspector and installed on a tank, the MPCA shall consider whether installation of a corrosion protection system for the tank floor is necessary. A corrosion protection system is not required on a tank where a double bottom is installed.
2. A corrosion protection system means a system, certified by a National Academy of Corrosion Engineers Certified Corrosion Specialist, which effectively inhibits corrosion of the underside of the floor of a tank. A corrosion protection system may include either an impressed current or sacrificial anode cathodic protection system, keeping the underside of the tank floor from being in direct contact with soil or other surfaces, also the application of a coating, or another system if approved by the MPCA.
3. The Permittee shall submit plans and specifications for any corrosion protection system for MPCA approval prior to installation.
4. The Permittee shall maintain each system in a functioning condition and test the system at least annually for proper function. A written record of the testing method, date, and results shall be retained for three years.

K. Underground Product Transmission Lines

1. It is the opinion of the Permittee that the Facility does not have underground product transmission lines. Horizontal transmission lines located within containment berms and dikes are exempt from review but shall be included in weekly visual inspections to determine if seeping of product has occurred at the point of intersection within the dike or berm.
2. In accordance with Part II.M, entitled, Annual Report, the Permittee shall identify any underground lines and indicate which line segments if any will be relocated aboveground. If the Permittee proposes to leave any line segments underground, or if the Permittee proposes constructing any new underground lines, the Permittee shall propose means of adequately preventing and detecting leaks in such lines.

3. The MPCA will approve a proposal to leave a line underground if it is demonstrated that a leak prevention and detection system exists or will be implemented which will insure that leaks do not go undetected or unreasonably impact the environment.
4. All product transmission lines shall either be relocated aboveground or have leak prevention and detection systems approved by the MPCA and installed within two (2) years of permit issuance.

L. Substance Transfer Areas

The Permittee shall provide, for all tanks subject to this permit, substance transfer safeguards such as spill boxes, remote fill boxes, or containment areas. The safeguards must effectively contain a release at the connection point, as well as at the vehicle, during transfer of the substance to and from the tank.

M. Annual Progress Report

On or before one (1) year from permit issuance, and once each year thereafter until all safeguards required by this Permit are completed, the Permittee shall submit a report to the MPCA which summarizes the results of internal inspections, external inspections, floor upgrades of tanks, gauging equipment, overfill equipment, corrosion protection, product transmission lines, and secondary containment area upgrades as performed during the previous year.

N. Maintenance and Operation

1. The Permittee shall maintain all ASTs and appurtenances such as product transmission lines and all release prevention, detection, and containment structures, devices and materials at the Facility in proper working order, and shall conduct tests and inspections as necessary to ensure proper function.
2. The Permittee shall train all employees, and ensure training of all contractors, who may construct, operate, inspect, or are otherwise responsible for tanks and lines and their safeguards, as necessary to ensure proper operation and oversight by employees and contractors.

O. Advance Notice of Physical Alterations and Additions

1. In addition to compliance with the tank notification and update requirements of Minn. Stat. §116.46 et seq., the Permittee shall give advance written notice to the MPCA as soon as possible of planned physical alterations and additions to the Facility related to field-erected ASTs and their appurtenances and safeguards, including the construction of a new field-erected tank or underground line to which this permit would apply, or a major modification of an existing field-erected tank, e.g. installation of a new tank floor.
2. The Permittee shall not put any new field-erected tank or any new underground line into service, or return to service any field-erected tank inactive or closed at the time of issuance of this permit, without prior written approval by the MPCA of the adequacy of safeguards as designed and as built, including MPCA review of post-installation permeability testing results for any clay secondary containment area liner.

III. General Conditions**A. Transfer of Ownership or Control**

No permit may be assigned or transferred without the express written approval of the MPCA, and then only after compliance with the requirements of Minn. R. 7001.0190. The Permittee shall submit an updated notification as required under Minn. Stat. §116.48. subd. 3, to the MPCA within 30 days of a change in ownership of the tank or tanks. Any succeeding owner shall be bound by the terms and conditions of this permit.

B. Other Statutes, Rules, and Ordinances

The MPCA's issuance of a permit does not release the Permittee from any liability, penalty or duty imposed by Minnesota or federal statutes or rules, or local ordinances, except the obligation to obtain this permit.

C. More Stringent Rules

The MPCA's issuance of a permit does not prevent the future adoption by the MPCA of permits, pollution control rules, standards, or orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards or orders against the Permittee.

D. Previous Permits

The issuance of this permit supersedes all other individual permits for the storage of liquid substances in ASTs at the Facility issued by the MPCA prior to the date of this permit. The issuance of this permit supersedes the General Permit dated November 1, 1995, with respect to ASTs at the Facility with a capacity of greater than 1,100 gallons.

E. Property Rights

The issuance of this permit does not convey a property right or exclusive privileges.

F. Accurate Statements and Reports

The Permittee may not knowingly make a false or misleading statement, representation, or certification in a record, report, plan, or other document required to be submitted to the MPCA or to the Commissioner by the permit. The Permittee shall immediately, upon discovery, report to the Commissioner an error or omission in these records, reports, plans, or other documents.

G. Timely Submittals of Information

The Permittee shall submit, when requested by the Commissioner, and within a reasonable time, the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the facility covered by this permit or regarding the conduct of the activity covered by the permit.

H. Right of Entry

Pursuant to Minn. Stat. § 115.04, the Permittee shall allow the Commissioner of the MPCA and authorized representatives, upon presentation of credentials:

1. To enter the Permittee's premises where an AST is located for the purpose of obtaining information, examination of records, conducting surveys or investigations;
2. To bring equipment upon the Permittee's premises which is necessary to conduct surveys and investigations;

3. To examine and copy any books, papers, records, or memoranda pertaining to the installation, maintenance, or operation of the tank; or
4. To sample and monitor any substances at any location at the site.

I. Discovery of Noncompliance

If the Permittee discovers, through any means, including notification by the MPCA, that noncompliance with a condition of the permit has occurred, the Permittee shall take all reasonable steps to minimize the adverse impacts on human health, public drinking water supplies, or the environment resulting from the noncompliance.

J. Reporting Noncompliance

1. If the Permittee discovers that noncompliance with a condition of the permit has occurred which could endanger human health, public drinking water supplies, or the environment, the Permittee shall, within 24 hours of the discovery of the noncompliance, orally notify the Commissioner. Within five days of the discovery of the noncompliance, the Permittee shall submit to the Commissioner a written description of the noncompliance; the cause of the noncompliance; the exact dates of the period of the noncompliance; if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
2. If the Permittee discovers that a release from a tank or a product transmission line of any substance at the facility has occurred, excluding a release of five gallons or less of petroleum, even if the release appears to be contained, the Permittee shall immediately notify the Minnesota State Duty Officer and take action to recover the substance released.

K. Liability Exemption

This permit authorizes the Permittee to perform the activities described under the conditions in the permit. In issuing this permit, the state and agency assume no responsibility for damage to persons, property or the environment caused by the activities of the Permittee in the conduct of its actions, including those activities authorized, directed or undertaken under this permit. To the extent the state and agency may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Torts Claims Act, Minn. Stat. § 3.736.

L. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked by the MPCA, in whole or in part, for any of the following reasons:

1. Violation of any terms or conditions of this permit;
2. The discovery of information demonstrating that the Permittee obtained this permit by misrepresentation or failure to disclose fully all relevant facts; or
3. Any reason stated in Minn. R. 7001.0170 or 7001.0180.

M. Time Extensions

Time schedules specified in this permit may be extended by the MPCA. To obtain such an extension, the Company must first request an extension in writing, at least 45 calendar days prior to the upgrade deadline, stating the need and reasons for the extension. The MPCA shall send a written notice to the Company whether the extension is granted or denied at least 15 calendar days prior to the deadline which has been requested for extension, and shall provide explanation for the decision. Any request for extension not timely replied to by the MPCA shall be deemed granted as requested.

IV. Attachments

1. Tank Requirements
2. Secondary Containment Area Requirements

ATTACHMENT 1Tank Requirements

Tank #	Substance	Capacity (gal.)	1. External Inspections	2. Internal Inspections	3. Overfill Prevention	4. Floor Upgrade	5. Gauging System	6. Corrosion Protection
015	NO. 1,2 FUEL OIL	12,000	no	no	no	no	no	no
019	NO. 1,2 FUEL OIL	6,000	no	no	no	no	no	no
032	NO. 2,6 FUEL OIL (currently No.2)	3,384,000	yes - before 10/31/99	yes - before 10/31/99	no	* (see below)	yes * (see below)	* (see below)
033	NO. 6 FUEL OIL	3,384,000	yes - before 10/31/00	yes - before 10/31/00	no	* (see below)	yes * (see below)	* (see below)
034	NO. 6 FUEL OIL	3,384,000	yes - before 10/31/98	yes - before 10/31/98	no	* (see below)	yes * (see below)	* (see below)
036	NO. 1,2 FUEL OIL	20,000	no	no	no	no	no	no
057	NO. 1,2 FUEL OIL	10,000	no	no	no	no	no	no
058	NO. 1,2 FUEL OIL	10,000	no	no	no	no	no	no
080	NO. 1,2 FUEL OIL	20,000	no	no	no	no	no	no
083	NO. 6 FUEL OIL	20,000	no	no	no	no	no	no
084	NO. 6 FUEL OIL	20,000	no	no	no	no	no	no
085	NO. 6 FUEL OIL	20,000	no	no	no	no	no	no
092	NO. 1,2 FUEL OIL	20,000	no	no	no	no	no	no
121	GASOLINE	6,000	no	no	no	no	no	no
122	GASOLINE	6,000	no	no	no	no	no	no
300 ID	LUBE OIL	1,300	no	no	no	no	no	no
304	MINERAL OIL	12,000	no	no	no	no	no	no
305	MINERAL OIL	12,000	no	no	no	no	no	no
306	MINERAL OIL	12,000	no	no	no	no	no	no
307 ID	F.C. OIL	20,000	no	no	no	no	no	no
308 ID	C.C. OIL	20,000	no	no	no	no	no	no
309 ID	CONCEN OIL	20,000	no	no	no	no	no	no
316 ID	10W OIL	7,000	no	no	no	no	no	no
317 ID	30W OIL	7,000	no	no	no	no	no	no
318 ID	40W OIL	2,500	no	no	no	no	no	no
319 ID	LUBE GREASE	2,500	no	no	no	no	no	no
326 ID	LUBE OIL	2,700	no	no	no	no	no	no
327	MOTOR OIL	2,000	no	no	no	no	no	no
328 ID	LUBE OIL	3,000	no	no	no	no	no	no

400	GLYCOL	7,000	no	no	no	no	no	no
421	ALCOHOL	10,000	no	no	no	no	no	no
500	FUEL OIL	20,000	no	no	no	no	no	no
501	FUEL OIL	20,000	no	no	no	no	no	no
505	FUEL OIL	20,000	no	no	no	no	no	no

Note: ID indicates tank is located indoors.

1. Whether an API 653 external inspection is required and if so, by what date.
2. Whether an API 653 internal inspection is required and if so, by what date.
3. Whether an overfill prevention system is required and if so, by what date.
4. Whether a tank floor upgrade is required and if so, by what date. * indicates tank upgrades are dependent upon API 653 internal inspection results and recommendations. In the event and following completion of the API internal inspection for tank #034 the API contractor recommends a tank floor upgrade, the Permittee agrees to an accelerated inspection schedule to be completed and reports submitted by June 30, 1999, for tanks #032 and #033. The Permittee also agrees to complete all recommended tank upgrades by December 31, 1999.
5. Whether a gauging system is required and if so, by what date. * Float gauges have been installed and will be used weekly for reconciliation purposes.
6. Whether corrosion protection (CP) is required. * indicates that corrosion protection is to be installed only if recommended by a certified API 653 tank inspector and deemed necessary by the MPCA. If corrosion protection of a tank is deemed necessary, the MPCA shall negotiate with the Permittee a reasonable timeline for installation of the system.

ATTACHMENT 2**Secondary Containment Area Requirements**

Area #	Tank #'s	Volume Containment (gal.)	Construction	Approval status	Requirements
1	032	3,596,118	clay and soil basin , berm as well as under tank	yes	none
2	033	3,787,760	clay and soil basin, berm as well as under tank	yes	none
3	034	3,474,774	clay and soil basin , berm as well as clay under tank	yes	none
4	121, 122	19,738	poly liner	yes	none
5	092	22,281	poly liner	yes	none
6	080	32,668	poly liner	yes	none
7	057, 058	19,600	poly liner	yes	none
8	501	25,103	poly liner	yes	none
9	500	22,418	poly liner	yes	none
10	015, 304, 305, 306	54,299	concrete with 30 ml poly liner overlay	yes	none
11	326, 036	30,185	concrete with 30 ml poly liner overlay	yes	none
12	083, 084, 085	N/A	no secondary containment currently exists	no	reasonably impervious containment (with vol., calc.) shall be constructed before 12/31/98.
13	421	N/A	60 ml poly liner	no	volume calc. to be submitted before 12/31/98
14	505	N/A	poly liner	no	volume calc. to be submitted before 12/31/98
15	all indoor (ID) tanks		containment consists of enclosed building structures, concrete floors and sewered outfalls to an approved tailings pond	yes	none

APPENDIX F – MESABI RANGE GEOLOGIC MAP

Site Identification Number Vic # 15860

NOTICE

This file contains one or more of the following items that have not been scanned.
For access to these items, see the original file.

- ☐ audio cassette tape(s)
- ☐ blueprint(s)
- ☐ compact disc(s)
- ☐ diskette(s)
- ☒ map(s)
- ☐ other _____
- ☐ photograph(s)
- ☐ plan sheet(s)
- ☐ slide(s)
- ☐ videotape(s)